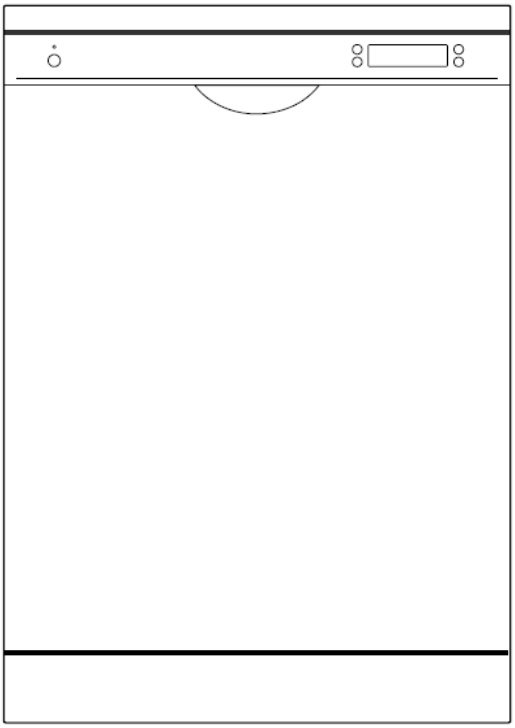
Haier

SERVICE MANUAL

Order No. DW1004S001V0

DISHWAHSER

Model No. DW12-PFE8 Series



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Haier Group

Service Manual

Model No:DW12-PFE8 Series

Issue	
Rev.	

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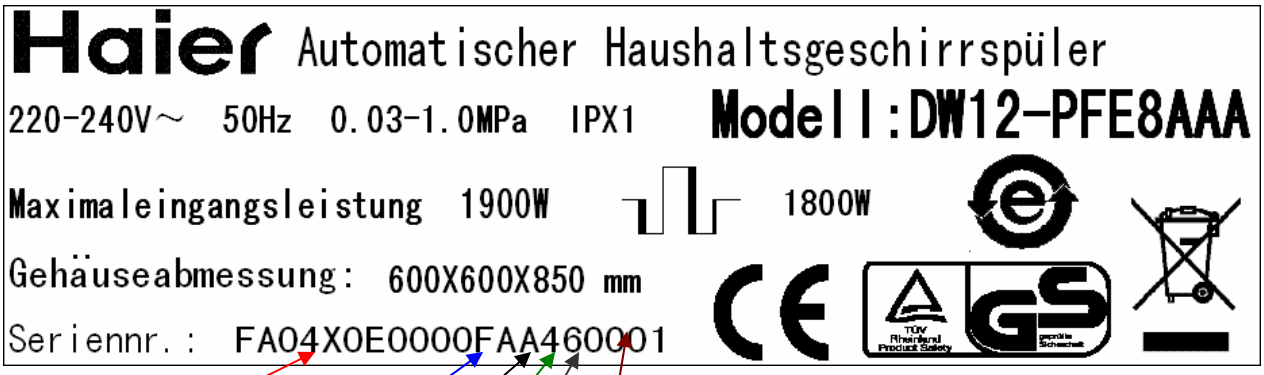
1. Features

Brand	HAIER			
Model	Product Code	EAN NO.	Appearance Colour	Power Standard
DW12-PFE8AAA	FA07X4E0000	6925777857401	White	EUROPE TYPE
DW12-PFE8SAAA	FA07X5E0000	6925777857418	Stainless Steel	EUROPE TYPE

A grade for energy consumption of European standard EN50242.
A grade for washing efficiency of European standard EN50242.
A grade for drying efficiency of European standard EN50242.
Super-capacity for 12 settings.
With Aquastop.
Electronic control, 3 in 1 function, delayed start，reset drain function，upper rack wash and bottom rack wash.
Conceal Heater.
Staniless Steel Filter.
Water softener for descaling

2. SERIAL LABEL

Serial label located on the top left hand side of the inner door panel.



Product Code(DW12-PFE8AAA: FA07X4E0000)

DW12-PFE8SAAA:FA07X5E0000

Dishwasher Line Code(FA)

Year(A)

Month(4)

Date(6)

Product number(0001)

Year

2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
A	B	C	D	E	F	G	H	J	K	L

Month

January	February	March	April	May	June	July	August	September	October	November	December
1	2	3	4	5	6	7	8	9	A	B	C

Date

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X

3.How to read this Service Manual

The symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.
For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Warning:
A “warning” is used when there is danger of personal injury.

Caution:
A “caution” is used when there is danger that the reader, through incorrect manipulation, may damage equipment, loose data, get an unexpected result or has to restart (part of) a procedure.

Notice:
A “notice” provides information that is not indispensable, but may nevertheless be valuable to the reader.

4. Safety precaution

4-1.At time of delivery

● Check packaging and dishwasher immediately for signs of transport damage. If the appliance is damaged, do not put it into use but contact your supplier or customer service without delay.
● Please dispose of packaging materials properly.

4-2.During installation

● Ensure that the domestic wiring is properly earthed.
● Site the dishwasher and connect it up in accordance with the installation instructions.
● The dishwasher must not be connected to the electricity supply while installation is being carried out.
● The mains electricity supply must conform to the details shown on the dishwasher nameplate.
● Do not connect the dishwasher to the electricity supply via an extension cable.
● After the appliance has been installed,the mains plug should still be easily accessible.
● During installation, the power supply cord must not be excessively or dangerously bent or flattened.
● This appliance cannot be installed outdoor, not even if the area in which it is installed is covered by a roof; it is also very dangerous to leave it exposed to the rain and elements.

4-3.During normal use

● The dishwasher must only be used by adults for the washing of household dishes and cooking utensils.
● Do not place any heavy objects or stand on the door when it is open. The appliance could tip forward.
● The water inside the dishwasher is not suitable for drinking.
● Do not use solvents of any kind inside your dishwasher. They could cause an explosion danger.
● Open the door very carefully if the dishwasher is operating. There is a risk of water squirting out.
● Do not touch the heating element during or after a wash cycle.
● Fundamental rules to follow when using the appliance:
- Never touch the dishwasher when barefoot or with wet hands or feet;
- We discourage the use of extension cords and multiple sockets;
- If the appliance is not operating properly or maintenance must be performed, disconnect the appliance from the power supply.

4-4.If your family includes children

●This appliance is not intended for use by persons (including children) with reduced physical,sensory or mental capcabilities, or lack of experience and knowledge,unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
●Children should be supervised to ensure that they to not play with the appliance.
●Keep detergents out of the reach of children, who must also be kept away from the dishwasher when it is open.

4-5.If a fault occurs

● If the appliance malfunctions, turn off water supply to the appliance and disconnect the power supply turn off and the plug from the wall socket. Then, consult the section entitled, "Fault finding" .If you cannot solve the problem, contact a service center.

● Only specialised personnel are authorised to make repairs.

If the supply cord is damaged, it must be replaced by the manufacture, its service agent of similarly qualified persons in order to avoid a hazard.

● To maintain the EFFICIENCY and SAFETY of this appliance,we recommend:

- call only the Service Centers authorized by the manufacturer, or the approved Service agents.
- always use original Spare Parts.

4-6.When disposing of old appliances

● Appliances which are no longer being used must be made inoperable by cutting the power supply cord and removing the door lock.

● Take the appliance to a designated waste disposal center.

Warning

Children could get locked in the appliance (risk of suffocation) or get stuck in other positions. Therefore:Remove the mains plug, cut the mains wire and set aside. Damage the door lock so that the door can no longer be closed.

5. Installation

5-1.Positioning the appliance

Positioning the appliance in the desired location. The back of the appliance should rest against the wall, and the sides, along the adjacent cabinets or wall. The dishwasher is equipped with water supply and drain hoses that can be positioned to the right or the left to facilitate proper installation.

5-2.Leveling the appliance

Once the appliance is positioned, adjust the feet (screwing them in or out) to adjust the dishwasher, making it level. The appliance should not be inclined more than 2°. If the appliance is level, it will help ensure proper performance.

5-3.Cold water connection

Connect the water supply hose to a threaded 3/4 (gas) connector, making sure that it is fastened tightly in place (see fig.A). If the water pipes are new or have not been used for an extended period of time, let the water run to make sure that the water is clear and free of impurities. If this precaution is not taken, there is a risk that the water inlet can get blocked and damage the appliance.

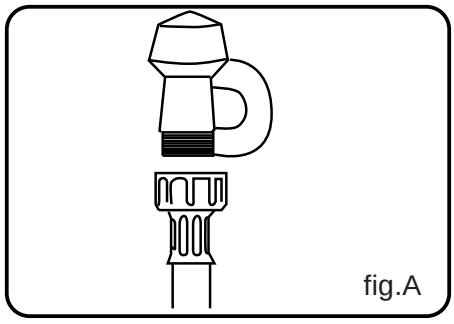


fig.A

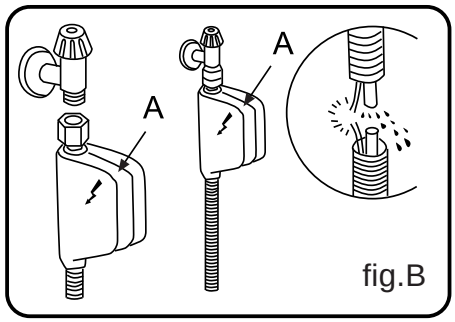


fig.B

Warning

The appliance is to be connected to the water mains using new hose-sets and that old hose-sets should not be reused.

Some models are fitted with an "Aquastop"water supply hose (see fig.B) in which the small filter is already housed in the threaded end.

WARNING:HAZARDOUS VOLTAGE!

Under no circumstance should the water inlet hose be cut as it contains live electrical parts.

5-4.Anti-Flooding protection

The dishwasher is equipped with a system that stops the supply of water in the event of a problem with the water supply hose, or leaks within the unit, in order to prevent damage to your home. If for any reason the box containing the electrical components happens to get damaged, turn off the power supply and remove the plug for the appliance from the socket immediately. In order to guarantee that the anti-flooding feature operates properly, the "A" box with water supply hose must be attached to the water supply tap as shown in fig.B. No other type of connection is acceptable.The water supply hose must not, under any circumstances, be cut,as it contains

electrical parts which are live. If the length of the hose is not adequate to make a proper connection, the hose must be replaced with one which is long enough. This hose is available upon request from specialised retailers and approved service center.

5-5.Drain hose connection

Insert the drain hose into a drain pipe with a minimum diameter of 4cm, or let it run into the sink, making sure to avoid bending or crimping it. If necessary, fit a siphon trap (U-bend) with a connecting piece for the electrical drain hose (fig.C). The free end of the hose must be at a height between 40 and 100 cm and must not be immersed in water.

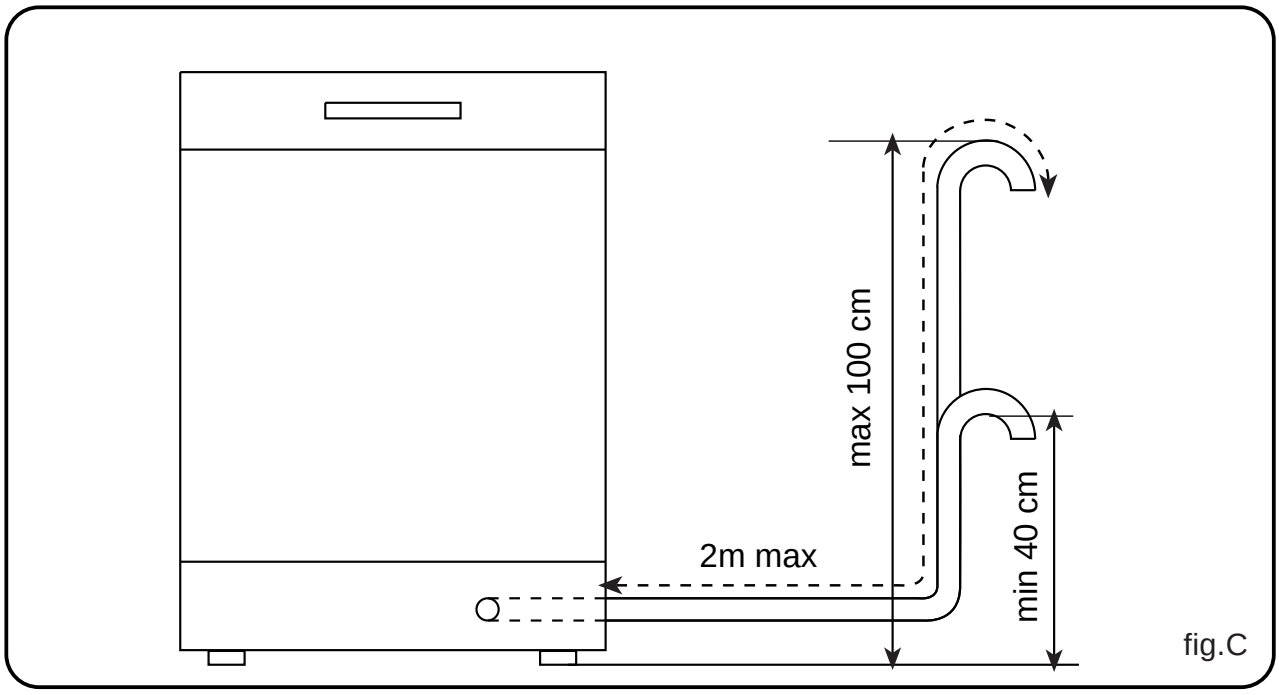


fig.C

Attention:

The connecting piece for syphon trap (U-bend) must be securely fastened to the wall to prevent the drain hose from moving and allowing water to spill outside the drain.

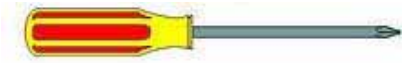
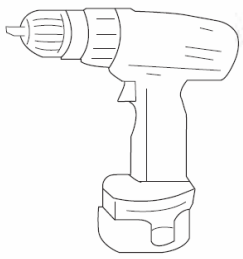
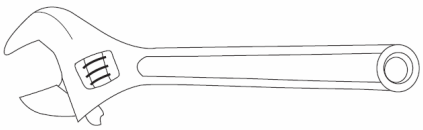
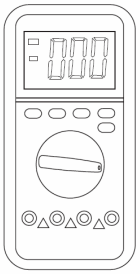
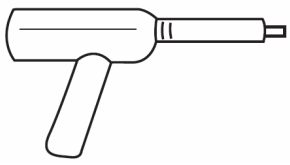
5-6.Electrical Connection

After making sure that the voltage and frequency values for the current in the home correspond to those on the rating plate (located on the stainless steel inner door of the appliance) and that the electrical system is correct for the maximum voltage on the rating plate, insert the plug into an electrical socket which is earthed properly (the earthing of the appliance is a safety requirement mandated by law).

Caution:

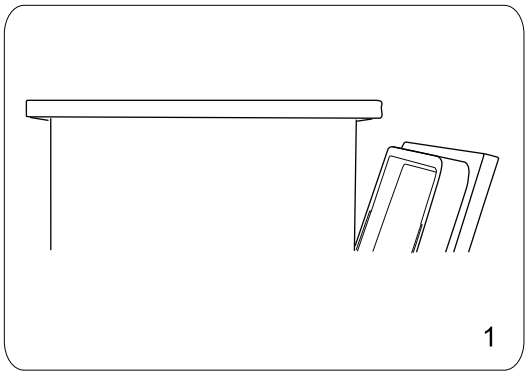
The dishwasher plug must be accessible even when the appliance is installed as a built-in unit so that maintenance can be done safely.

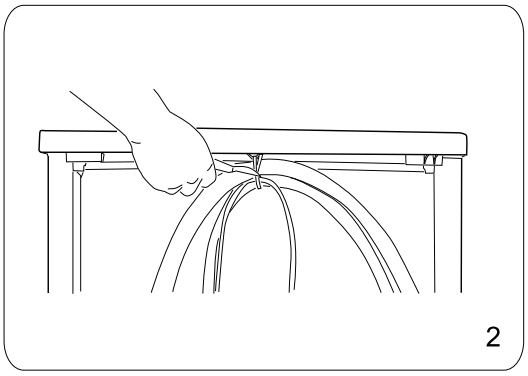
5-7.Tools

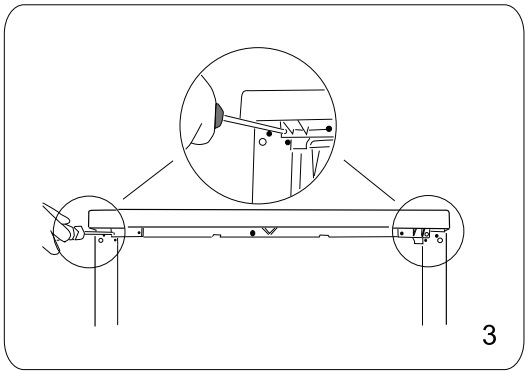
Screwdriver	■ Dissemble and assemble for dishwasher Components.
Cross-Screwdriver 	■ Dissemble and assemble for dishwasher Components.
Blade	■ Unpacking.
Electric Drill 	■ Drill holes while installation.
Spanner 	■ Combine the inlet hose.
Multimeter 	■ Used for measuring the PCB and Display Board.
Soldering iron 	■ Used for Jointing the PCB and Display Board.
Pliers	■ Used for removing the pipe hoop and Clips.

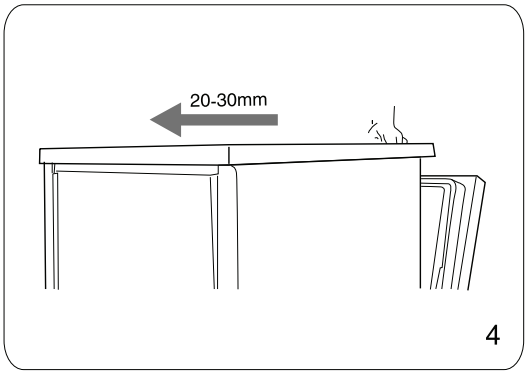
5-8.How to remove the top of your dishwasher

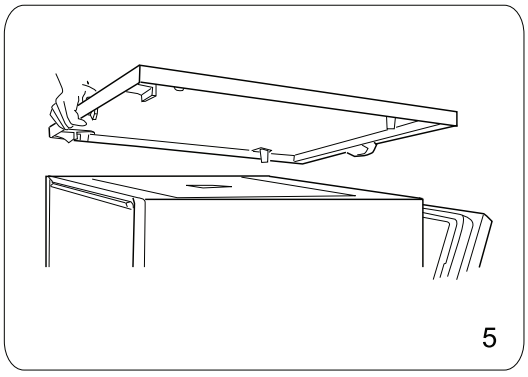
Freestanding dishwasher can also be used as built-in,according to following processes:

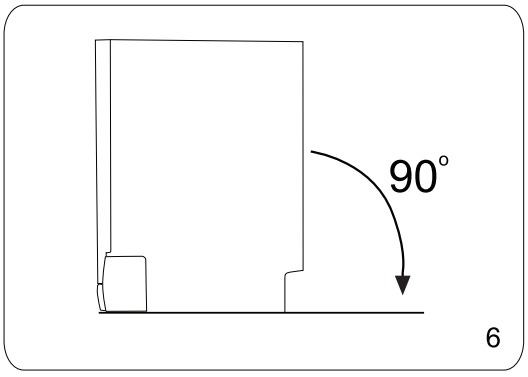


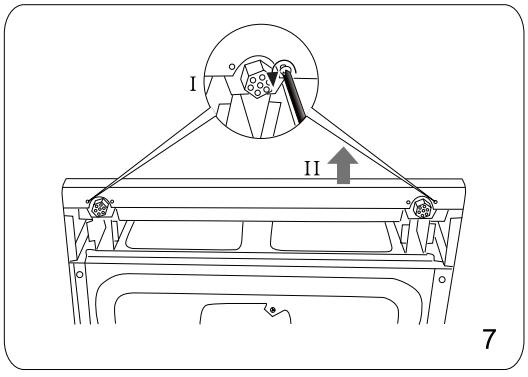


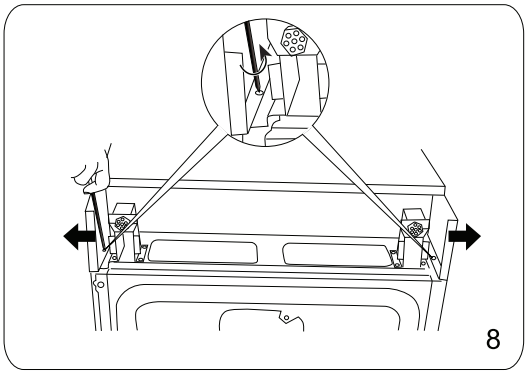


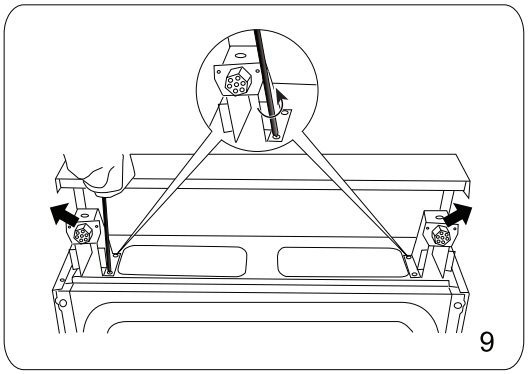












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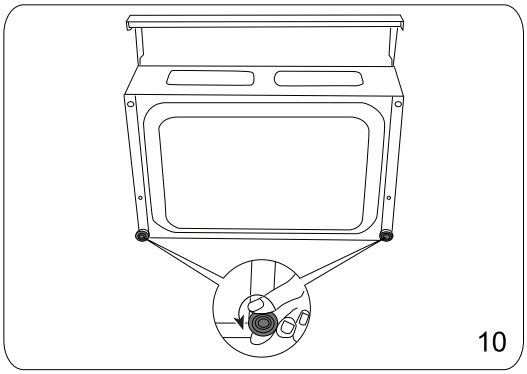

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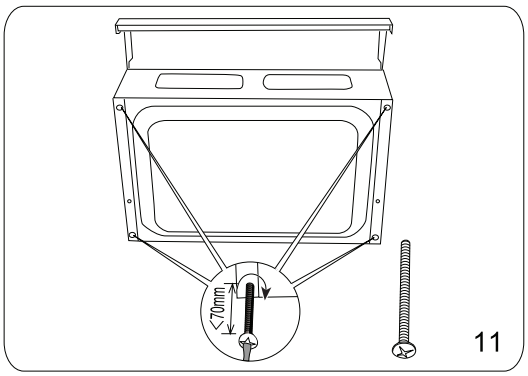

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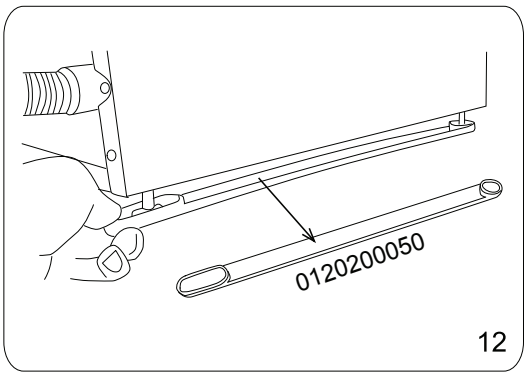

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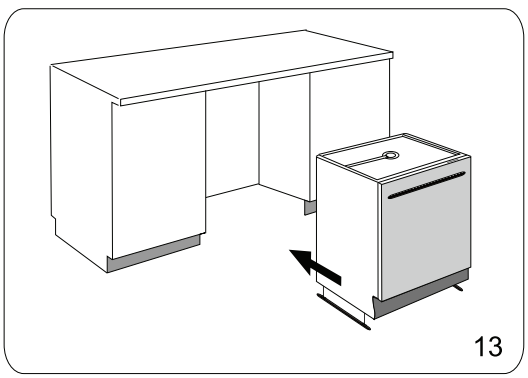
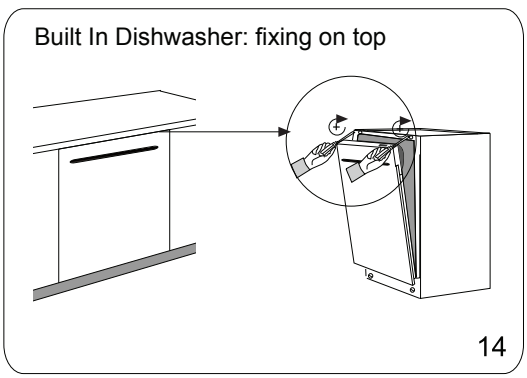


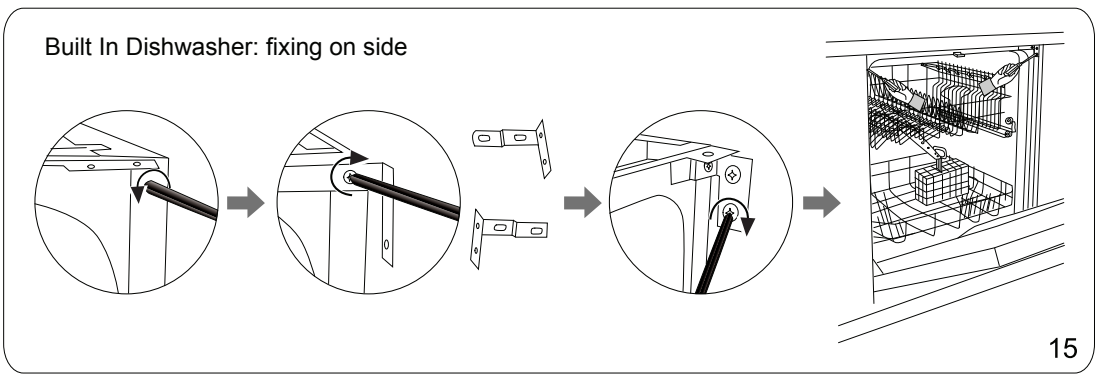
13

Built In Dishwasher: fixing on top



14

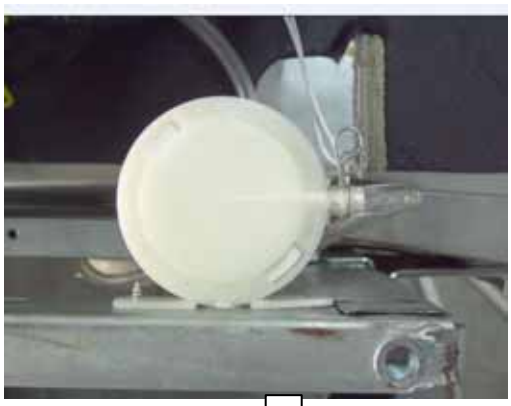
Built In Dishwasher: fixing on side



15

5-9. Dissemble and assemble procedure

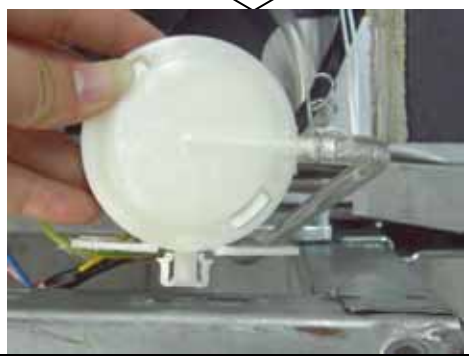
5-9-1. Water pressure switch disassembly



■ Water pressure switch locates in the behind of the tub on the right and is fixed in straight pole.

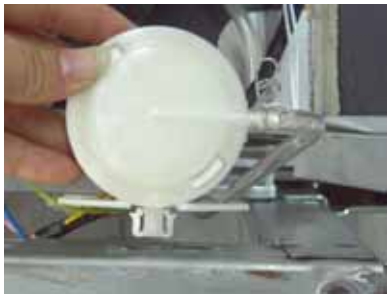
■ Put the guiding groove up until to the top which is ringent.

■ Press the wedge of the water pressure switch until it comes out of slot with hands.



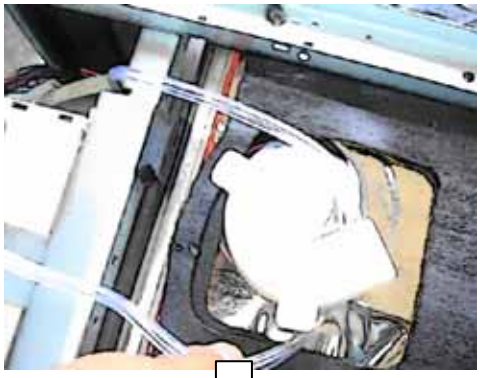
■ Press the pinchcock at full tilt with your hands and then pull the pipe out.

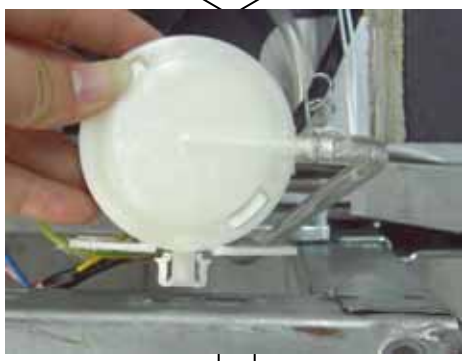
■ With stand the raised parts of the 1/4S quick connect termianl with thumb and then pull it out.



■ Change the old water pressure switch into a new one.

■ Insert cable line in, connection method is just like the picture on the left.



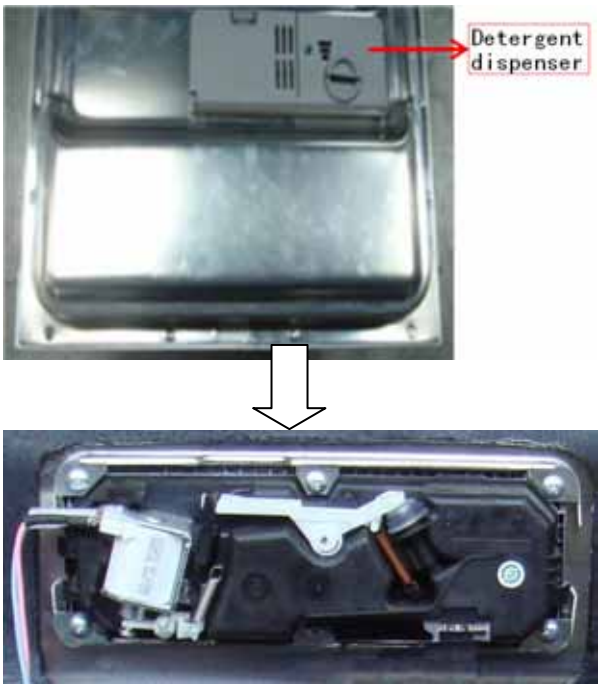


- Connect the pipe together. Attention: pipe must be put on the interspaces between vent hole and the tub.

- Put the pressure switch wedge into the large ringent slot part and then push it until to the slot bottom.

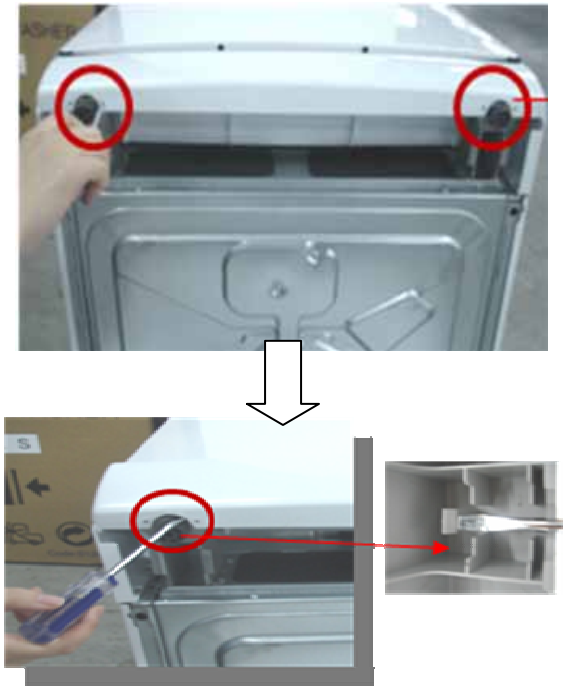
- Put the pipe to the smaller ringent place of its bottom and then the installation is completed.

5-9-2. Detergent dispenser disassembly



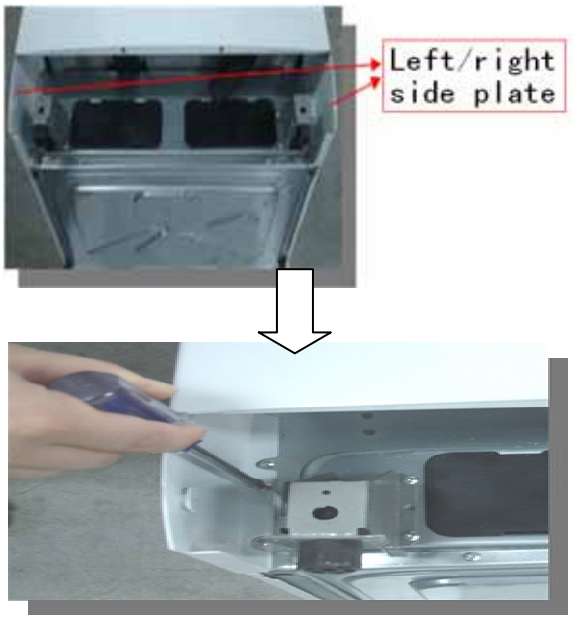
- Open the door, disassemble the outer door (Accord to the disassembly step)
- Close the door, use screwdriver to drive the 6 screws of Detergent Dispenser off, pull the wire out, then open the door, and get the Detergent Dispenser off.

5-9-3. Baseboard disassembly



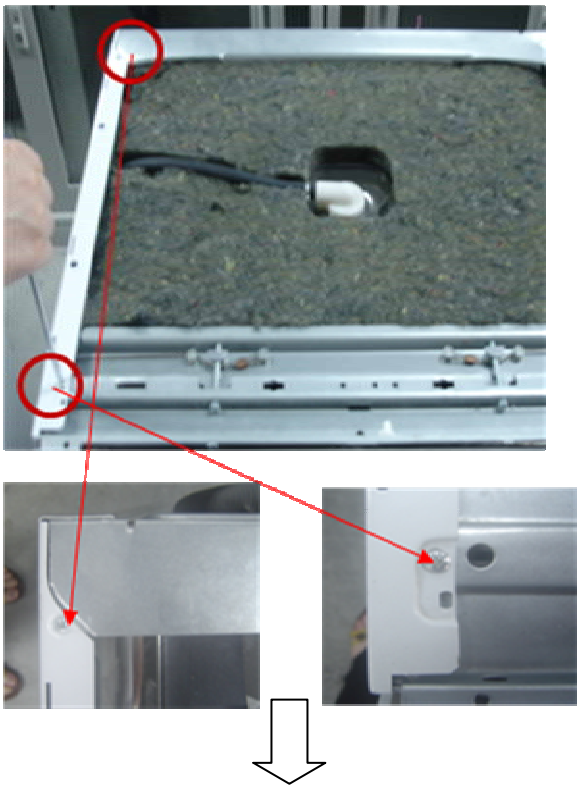
- Lie the machine down, use ross-screwdriver to drive two screws on baseboard off
- Use screwdriver to push the baseboard off the support foot, don't put big force to avoid break the stator.

5-9-4. Left/right side plate and baseboard disassembly

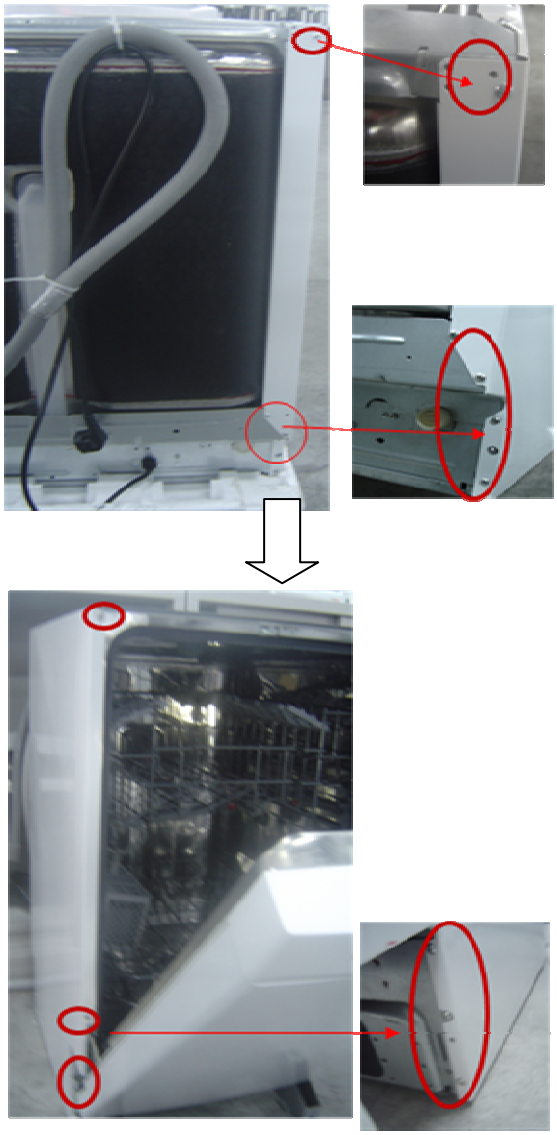


- Disassemble the baseboard(Pls find the pic of baseboard)
- Use cross-screwdriver to drive two screws off the side panel

5-9-5.Side panel disassembly



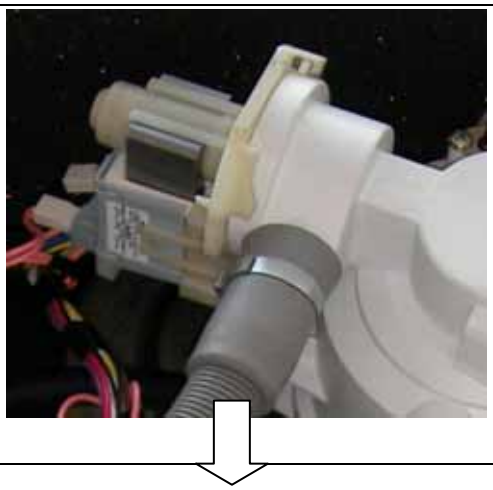
- Disassemble the Complete top(pls follow the disassembly step), use the cross-screwdriver to drive two screws which are on left top of machine, off side panel



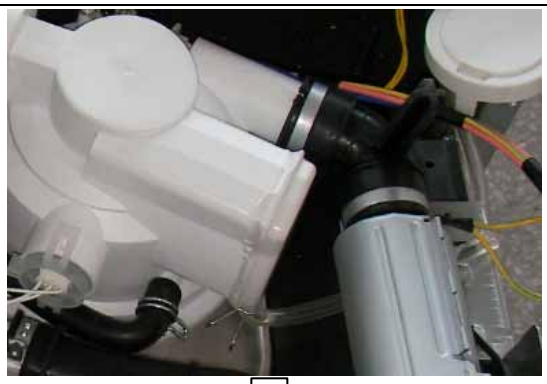
■ Use the cross-screwdriver to drive five screws which are in left back of machine, off the right side panel

■ Open the door, use the cross-screwdriver to drive four screws which are in left front, off

5-9-6. Sump disassembly



■ Disassembly the drain pump and drain pipe refer to with the way required for the drain pump.



■ Disassembly the heater refer to with the way required for the wash pump.

■ Remove the rubber pipe and the water level switch of the sump

■ Disassembly the turbility sensor

■ Disassembly the temperature sensor

- screw the Ring nut for sump fastening out with an anticlockwise way .

- Sump are dissembled completly

5-9-7. Water softer disassembly

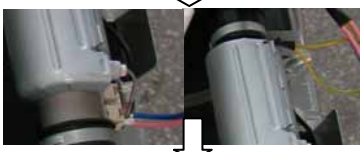
- Lay the dishwasher on the floor, then remove the bottom cover, pull out the connector of the salt adding valve and the low salt switch

- Remove the three clips for fixing the rubber connect pipe, then pull out the rubber pipe

- Open the out door, you can see the salt adding cover, then circumrotate the cover anticlockwise and screw it down.

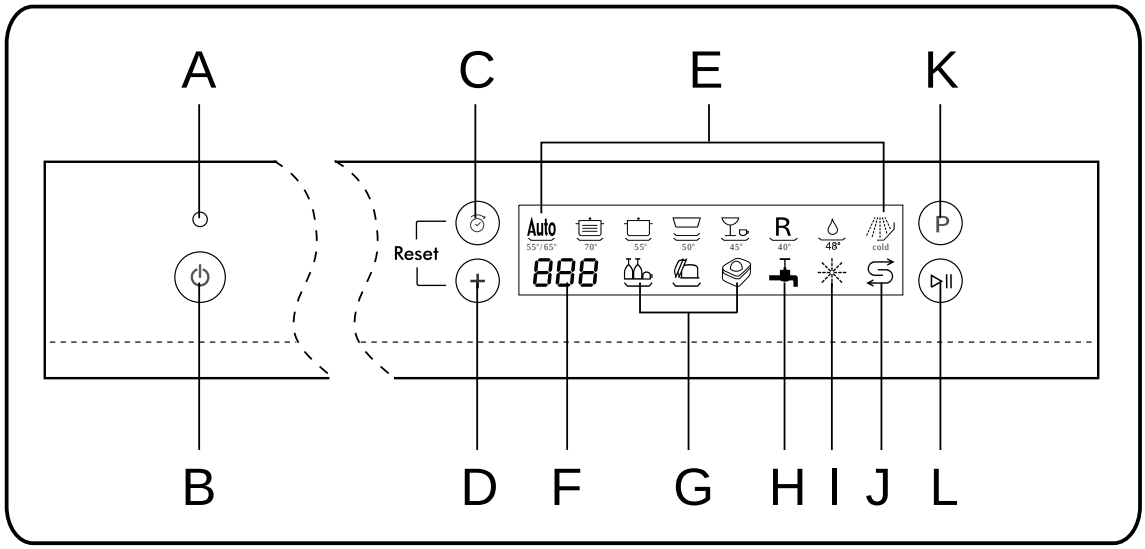
	■ Circumrotate the fixing set of the water softer anticlockwise, then screw id down(you can use the disassembly tool to operate) ■ Then take the water softer down accordingly.

5-9-8. Heater disassembly

   	■ Remove the two self-drilling bolts for fixing the heater bracket from the middle bar, then remove the heater. ■ Pull out the three connector of the heater. ■ Remove the pipe hoop. ■ Remove the connector pipe of the hot pump and the middle hot pump ,then can take the heater down.

6. Parts and Functions

6-1.Close-up view (control panel)



A ON-OFF Indicator
B ON-OFF Button
C Delay Start Button
D Additional option Button
E Programme symbols
F Time-remaining Indicator
G Additional option symbols
H Inlet Fault Indicator
I Low Rinse Aid Indicator
J Low Salt Indicator
K Programme Button
L Start/Pause Button

Function overview

Press this button to delay the start of programme.

Press this button to select the Additional option function.

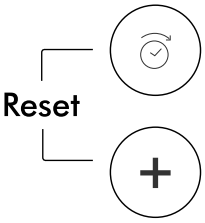
Upper Rack Wash function

Lower Rack Wash function

Combi-detergent tablets option

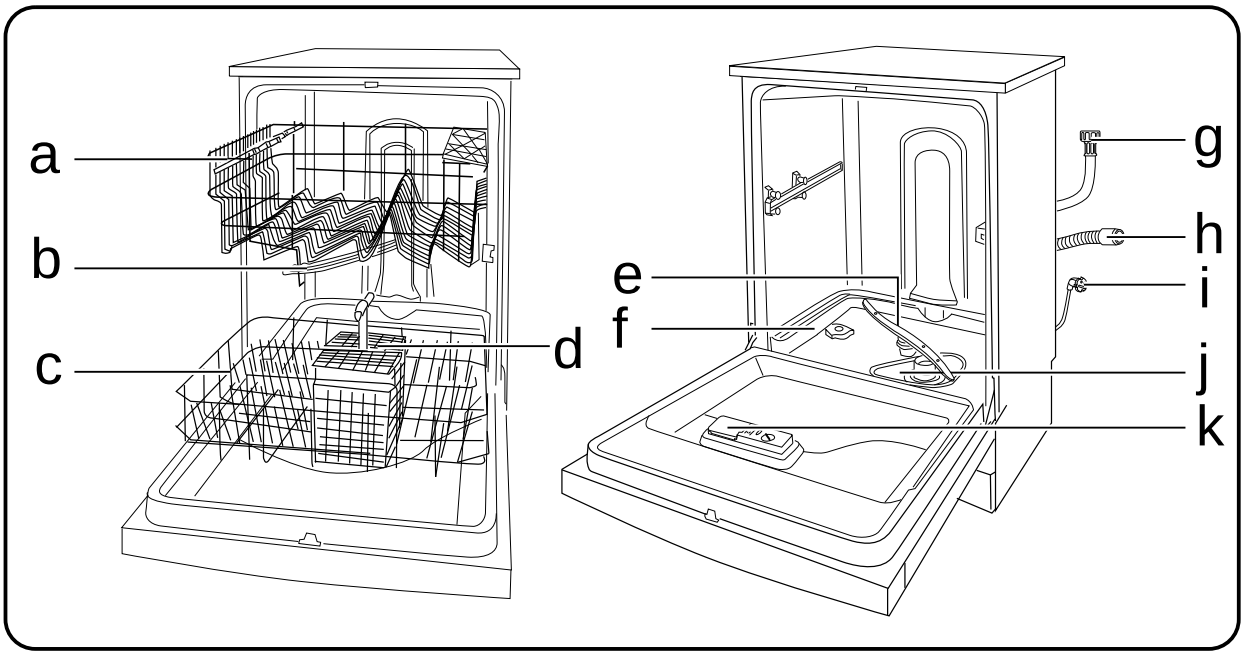
Press this button to select the programme.

Press this button to start or pause the programme.



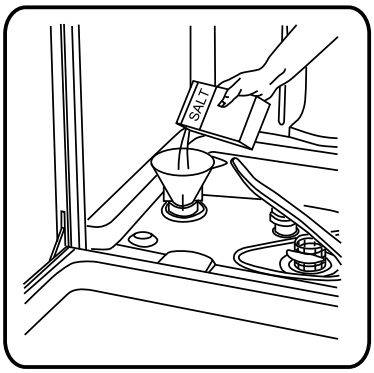
Press this two buttons for 3 seconds to concel the programme.

6-2.Dishwasher interior



a Upper Rack
b Top Spray Arm
c Lower Rack
d Silverware Basket
e Bottom Spray Arm
f Salt Container Cap
g Water Inlet Hose
h Drain Hose
i Power Supply Cord
J Power Supply Cord
K Detergent and Rinse Aid Dispenser

7. How to load the salt

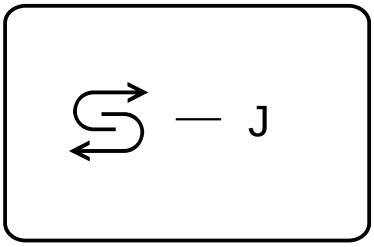


7-1.Salt

The hardness of the water varies from place to place. If hard water is used in the dishwasher, deposits will form on the dishes and utensils.
The appliance is equipped with a special softener that uses a salt specifically designed to eliminate lime and minerals from the water.

7-2.Loading the salt into the container

Always use salt intended for use with dishwashers.
The salt container is located beneath the lower rack and should be filled as follows:



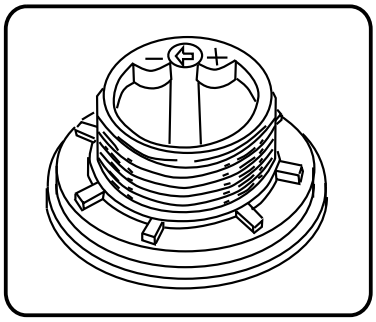
● When the low salt indicator “J” lights, you must fill the salt.
● emove the lower rack and then unscrew and remove the cap from the salt container;
● If you are filling the container for the first time, fill it with water;
● Place the end of the funnel (supplied) into the hole and introduce about 2 kg of salt. It is normal for a small amount of water to come out of the salt container.
● Carefully screw the cap back on.

Important

To prevent the formation of rust, load the salt just before beginning a wash cycle.

7-3.Adjusting salt consumption

The dishwasher is designed to allow for adjusting the amount of salt consumed based on the hardness of the water used. This is intended to optimize and customize the level of salt consumption so that it remains at a minimum.
To adjust salt consumption, proceed as follows:



● Unscrew the cap from the salt container;
● There is a ring on the container with an arrow on it (see figure to the side).
● If necessary, rotate the ring in an anticlockwise direction from the "-" setting towards the "+" sign, based on the hardness of the water being used.

It is recommended that adjustments be made in accordance with the following table:

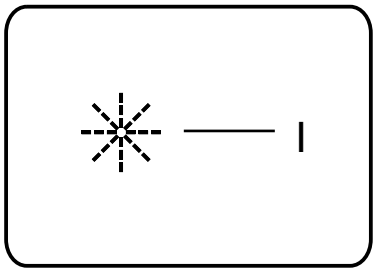
Hardness of the water			Selector knob position	Salt consumption (grams/cycle)	Autonomy (cycles/2 kg)
ºdH	ºfH	mmol/l			
0 -10	0-17	0-1,7	/	0	/
10-25	18-44	1,8-4,4	-	20	60
25-50	45-89	4,5-8,9	MED	40	40
>50	>89	>8,9	+	60	25

The default setting of the water softening system is -.

- If using multi-functional tablets fill the salt dispenser and set the adjuster to -; if the hardness of the water is greater than 60ºfH, set it to +.

8. How to load rinse aid

8- 1.Rinse aid

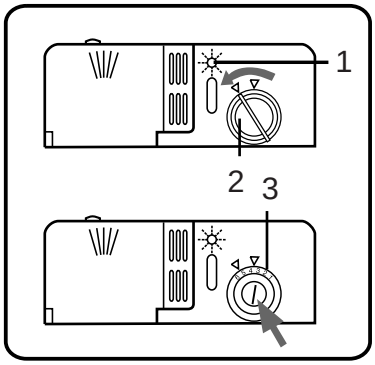


This product makes dishes sparkle and helps them to dry without spotting. The dispenser is located on the inside panel of the door .When the low rinse aid indicator " I "on the control panel and the mechanical indicator " 1 " on the dispenser light, you must load rinse aid.

Notice:

When using combi-detergent tablets,like "3 in 1", "4 in 1", "5 in 1"... the rinse-aid is no longer useful.

8-2.Loading the rinse aid

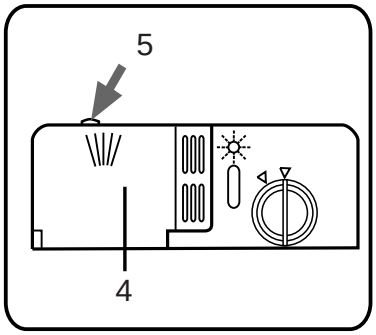


Regardless of the type of detergent dispenser installed on your appliance, you must proceed as indicated below when loading the rinse aid.
To open the dispenser, turn the "2" cap in an anticlockwise direction and then pour in the rinse aid, making sure not to overfill. The amount of rinse aid used for each cycle can be regulated by turning the " 3" dose adjustor, located beneath the "2" cap, with a screwdriver. There are 6 different settings; the normal dosage setting is 3.

Important

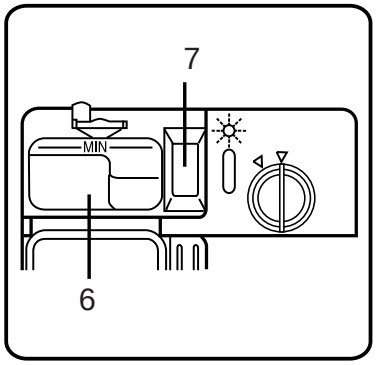
Proper dosage of the rinse aid improves drying. If drops of water remain on the dishes or spotting occurs, the dosage adjustor should be turned to a higher setting. If the dishes have white streaks, turn the dosage adjustor to a lower setting.

9. How to load detergent



9-1. Detergent

Detergent specifically intended for use with dishwashers must be used. The dispenser must be refilled before the start of each wash cycle following the instructions provided in the "Programme overview". The detergent dispenser is located on the inside panel of the door.



9-2.Loading the detergent

If you use normal detergent ...

● To open the " 4 " cover on the dispenser, press the "5" button.

● The detergent for the wash cycle should be poured into the " 6 " compartment.

● The detergent for the pre-wash cycle should be poured into the “ 7 ” compartment.

● After the detergent has been placed in the dispenser, close the cover and press down until it clicks in place.

If you use "combi-detergent tablets" , like "3 in 1", "4 in 1", "5 in 1"...

● To open the " 4 " cover on the dispenser, press the "5" button.

● The "tablets" should be poured into the " 6 " compartment.

● After the detergent has been placed in the dispenser, close the cover and press down until it clicks in place.

Notice:

If you use "combi detergent tablets" , you have to select combi-detergent tablets option function.

Notice:

To facilitate closing the cover, remove any excess detergent on the edges of the dispenser.

10.Arranging crockery, glasses, etc. in the dishwasher

Before placing the dishes in the dishwasher, remove larger food particles to prevent the filter from becoming clogged, which results in reduced performance.
If the pots and pans have baked-on food that is extremely hard to remove, we recommend that they are soaked before washed. This will eliminate the need for extra wash cycles.
Pull out the rack to load the dishwasher.

10-1.How to use the lower rack

We recommend that you place the most difficult to clean items on the bottom rack: pots, pans, lids, serving dishes and bowls, as shown in the figure to the right.
It is preferable to place serving dishes and lids on the sides of the racks in order to avoid blocking the rotation of the top spray arm.

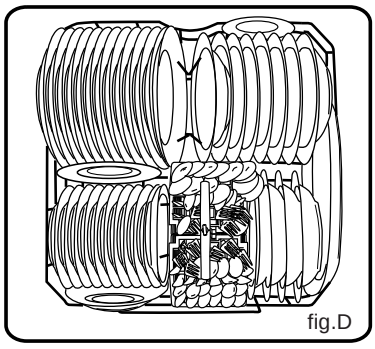


fig.D

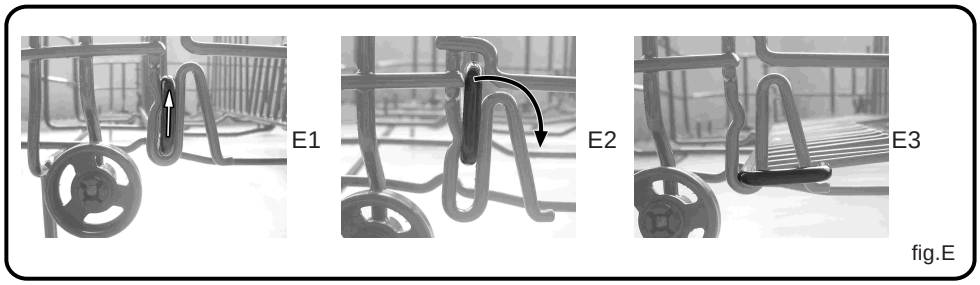


fig.E

● Pots, serving bowls, etc. must always be placed face down(see fig.D).
● Deep pots should be slanted to allow the water to flow out.
● **Some models:** the lower rack features fold down tine rows (see fig.E) so that larger or more pots and pans can be loaded.
● The silverware basket can be doubled (see fig.F) so that only one section may be used when the silverware load is light. This also makes space for additional pots and pans and it can also be placed in the upper rack.
● Silverware should be placed in the silverware basket with the handles at the bottom; if the rack has side baskets, the spoons should be located individually into the appropriate slots. Especially long utensils should be placed in the horizontal position at the front of the upper rack.

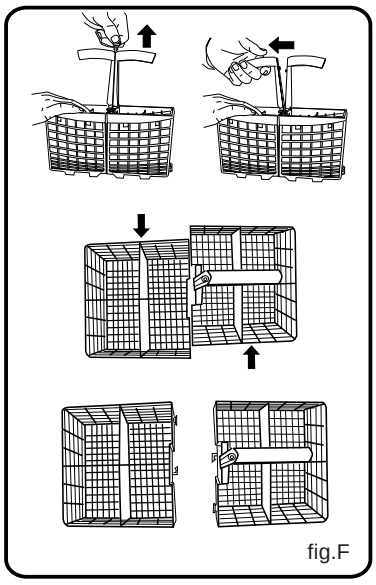


fig.F

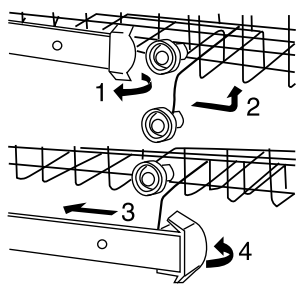
10-2.How to use the upper rack

The upper rack is designed to hold more delicate and lighter dishware, such as glasses, cups and saucers, plates, small bowls and shallow pans (as long as they are not too dirty).

● The dishes and cookware shall be arranged, so that they do not get moved by the spray of water.

● The upper rack can be adjusted for height by using the knobs located on both sides of the rack itself (see fig.G).

Adjust the upper basket to the higher level and you have more space to accommodate those taller pans and trays in the bottom basket.



(Some models)

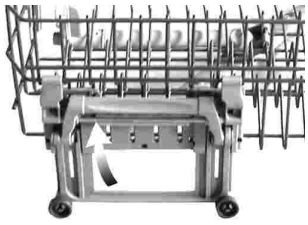


fig.G

10-3.Shelf

Lean tall glasses and those with long stems against the shelf-not against other items to be washed.

Place glasses, cups and small bowls on the additional cup rack. The additional cup rack can be swivelled in or out as required(see fig.H).

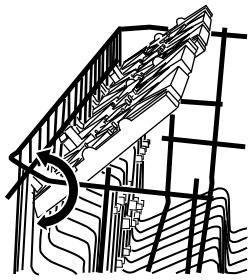


fig.H

10-4.Knife rack

The knife rack clips onto the side of the top basket, giving you the freedom to wash your large sharp knives separately and out of harm's way (see fig.I).

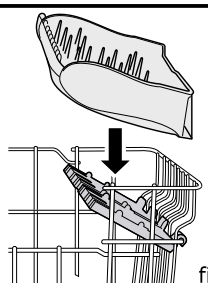


fig.I

Warning:

knives and other utensils with sharp points must be loaded in the basket with their points down or placed in a horizontal position.

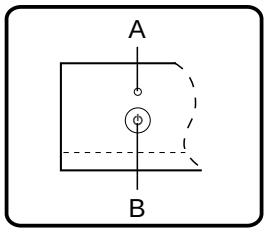
11.Programme overview

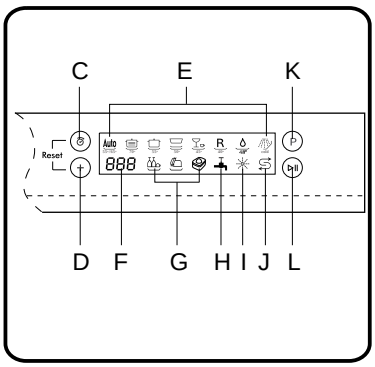
Wash programme	Type of crokery	Type of food remains	Amount of food remains	Condition of food remains	Description of cycle
Auto 55°/65° Automatic	Nondelicate (e.g.china, pots/pans, cutlery, etc)	Soups, casseroles, sauces, potatoes, pasts, rice, eggs, roastor fried food.	a lot	stuck on hard	Prewash with cold water. Main wash at 55°C or 65°C. 1 or 2 rinses with cold water. Rinse with hot water. Drying.
70° Intensive					Pre-wash with warm water. Extended wash at 70°C. Rinses with cold water. Rinse with hot water. Drying.
55° Normal					Pre-wash use cold water. Extended wash at 55°C. Rinse with cold water. Rinse with hot water. Drying.
50° Light	Mixed (e.g.china, pots/pans, cutlery, glasses, etc)	Soups, potatoes, pasta, rice, eggs, roastor fried food.	a little	loosely attached	Pre-wash use cold water. Extended wash at 50°C. Rinse with cold water. Rinse with hot water. Drying.
45° Glass		Coffee, cakes, milk, sausage, cold drinks, salads	Very little	loosely attached	Wash at 45°C. Rinse with warm water. Hot rinse. Drying.
R 40° Rapid					Short wash at 40°C. Hot rinse.
48° Green		Soups, potatoes, pasta, rice, eggs, roastor fried food.			Extended wash at 48°C. Rinse with cold water. Rinse with hot water. Drying.
cold Soak		Rinse off if the dishes have been stacked for several days in the dishwasher prior to washing.			Short cold wash to prevent food residue from drying on the dishes .

Additional options				Detergent		Rinse aid	Duration in minutes
Tablets	Delayed start	Upper rack wash	Lower rack wash	Prewash	Main Wash		
YES	YES	—	—	5g	25g	◆	75-110
		◆	—	5g	25g	◆	52-82
		—	◆	5g	25g	◆	66-98
YES	YES	—	—	5g	25g	◆	112
		◆	—	5g	25g	◆	86
		—	◆	5g	25g	◆	94
YES	YES	—	—	5g	25g	◆	102
		◆	—	5g	25g	◆	78
		—	◆	5g	25g	◆	90
YES	YES	—	—	5g	25g	◆	167*
		◆	—	5g	25g	◆	118
		—	◆	5g	25g	◆	135
YES	YES	—	—	5g	25g	◆	92
		◆	—	5g	25g	◆	72
		—	◆	5g	25g	◆	82
NO	YES	—	—	—	15g	◆	32
		◆	—	—	15g	◆	28
		—	◆	—	15g	◆	30
YES	YES	—	—	5g	25g	◆	108
		◆	—	5g	25g	◆	88
		—	◆	5g	25g	◆	98
NO	YES	—	—	—	—	—	12
		◆	—	—	—	—	8
		—	◆	—	—	—	10

◆ selected — unselected *EN50242 test with rinse aid setting 5

12. Turning on the Appliance





12-1.Switching the dishwasher ON

● Load the appliance and turn on the tap.
● Close the door, and set On-Off button "B" to On then the On-Off indicator "A" light.
● Press the programme button "K" to select the programme you wish, and the corresponding programme indicator "E" light.
● Press the Start/Pause button "L", then the dishwasher will start immediately, and the corresponding programme indicator "E" blinks.

12-2.End of washing programme

● Six beeps will indicate that the wash cycle has finished, the programme indicator light and time-remaining indicator will display "0".

12-3.Switching the dishwasher OFF

Several minutes after the programme has ended:
● Set On-Off button to Off
● Open the door .
● Remove dishes, etc. when they have cooled down.
● Turn the water tap off.

Notice:

When the appliance is already underway press the Reset button for 3 seconds, all of the settings will be cancelled.

12-4.Interrupting the programme

● Open the door.
Caution! There is a risk of water squirting out from inside the appliance. Do not open the door fully until spray arm has stopped rotating.
● When you open the door, the dishwasher will beep ten times every thirty seconds and the time-remaining indicator display "E1".
● If the appliance has already heated up or the hot water was switched ON and then the appliance door opened, leave the door ajar for several minutes and then close. Otherwise, the appliance door may open due to expansion.
● Close the door. After 30 seconds the programme will start from the point it was interrupted.

Notice:

Interrupt or cancel a programme in progress ONLY when absolutely necessary.

12-5.Cancelling or modifying a cycle while underway

● A cycle that is underway can be modified if it has only been running for a short time. Otherwise, the detergent may have already been used, and the appliance may have already drained the wash water. If this is the case, the detergent dispenser must be refilled (see the paragraph entitled, “ Loading the detergent ”).

● To modify a cycle that is already underway, follow the instructions contained in the paragraph entitled "Reset drain function", and select the programme you wish (see the paragraph entitled, "Switching the dishwasher ON").

12-6.Use of "3 in 1"/ Combi-Detergent Tablets

12-6-1.General Advice

1. Before using these products you should first check that the water hard-ness in your supply is compatible with the use of these products as per the detergent manufacturers instructions (on the product packaging).
2. These products should be strictly used according to the detergent manufacturers instructions.
3. If you encounter problems when using "3 in1" products for the first time then please contact the detergent manufacturers care line (the telephone number is given on the product packaging).

12-6-2.Special Advice

When using combination products, the rinse-aid and salt lights are no longer It may be helpful to select the lowest possible setting for water hardness.

12-6-3.To select "Combi-Detergent tablets" function:

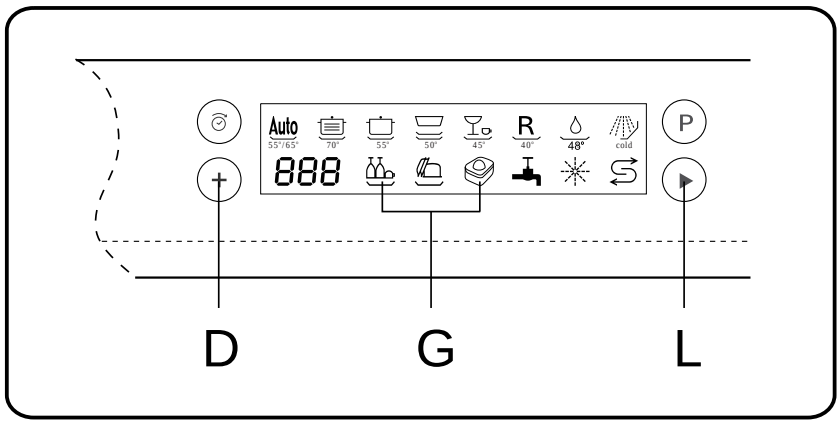
1. Close the door. Select the programme and then press the option button "D" until the "Combi-Detergent tablets indicator" lights.
2. Press the Start/Pause button "L", then the dishwasher will start immediately, and the programme indicator and the "Combi-Detergent tablets indicator" blinks.

12-6-4.To cancel "Combi-Detergent tablets" function:

Follow the "Cancelling or modifying a cycle while underway" instructions.

If you decide to switch to the use of a standard detergent system we advise that you:

1. Refill both the salt and rinse aid compartments.
2. Switch the water hardness setting to the highest possible position and run for three normal cycles without a load.
3. Readjust the water hardness setting again according to the conditions for your region (For more information please refer to your instruction manual).



Warning:

Do not place the tablets in the tub or the cutlery basket as this will result in poorer wash results. The tablets should be placed in the detergent doser.

Notice:

The usage of 3 in 1 or similar tablets is forbidden when Rapid Wash and Soak programmes are selected.

12-7.Upper rack wash

This function allows the dishwasher to wash dishes using only the upper rack if there are not enough dishes for a full load. This will allow you to save on water and energy consumption.

To select Upper rack wash:

1. Close the door. Select the programme and then press the Additional options button until the "Upper rack wash indicator" lights.
2. Press the Start/Pause button "L", then the dishwasher will start immediately, and the programme indicator and the "Upper rack wash indicator " will blink.

To cancel the Upper rack wash:

Follow the ‘Cancelling or modifying a cycle’ instructions.

12-8.Lower rack wash

This function allows the dishwasher to wash dishes using only the lower rack if there are not enough dishes for a full load. This will allow you to save on water and energy consumption.

To select Lower rack wash:

1. Close the door. Select the programme and then press the Additional options button until the "Lower rack wash indicator" lights.
2. Press the Start/Pause button "L", then the dishwasher will start immediately, and the programme indicator and the "Lower rack wash indicator" will blink.

To cancel the Lower rack wash:

Follow the "Cancelling or modifying a cycle while underway" instructions.

Notice:

Please keep in mind that the amount of detergent should also be adapted to the load.

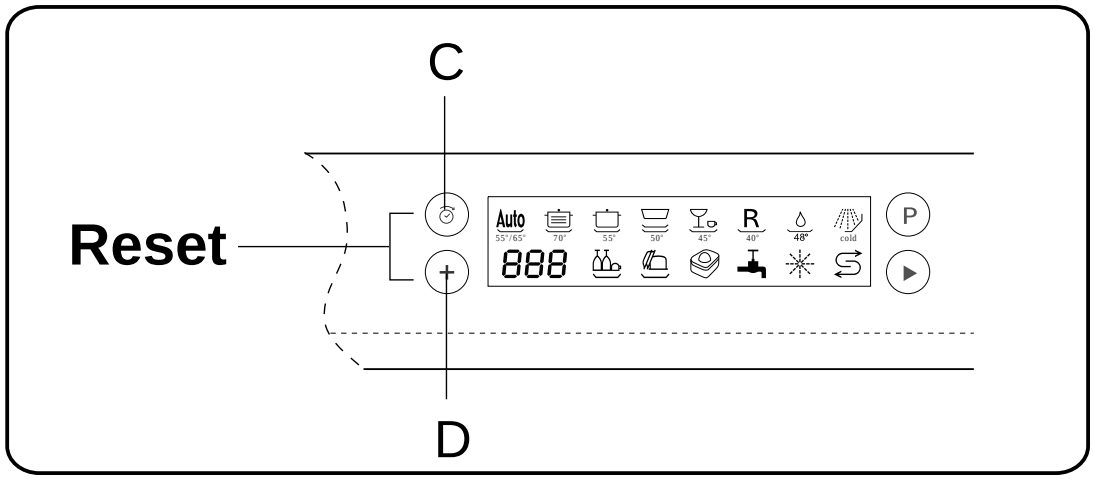
12-9.Delayed start programming

You can delay the start of a programme from 1 hour up to 24 hours.

1. Close the door, switch the dishwasher ON.
2. Press programme button to choose the desired programme.
3. Press the Delayed Start button, the time-remaining indicator changes to "1h".
4. Press the Delayed Start button as many times as necessary until the numerical display shows the required delay.
5. To cancel the time delay setting, pressing the Delayed Start button until the timeremaining indicator go out.
6. Press the Start/Pause button; the time-remaining indicator will blink and start to count down. The programme will start when the delayed start indicator goes out and the wash cycle will begin. To cancel a delayed start programme in progress, follow the "Cancelling or modifying a cycle while underway" instructions.

12-10.Reset drain function

You can use Reset drain function to stop the washing cycle under running by pressing the Reset Button(both “C” and “D”) for 3 seconds to "Reset ", and the appliance will stop after a few minutes drain phase.



13. How to keep your dishwasher in shape

After every wash

After every wash, turn off the water supply of the appliance and leave the door slightly ajar so that moisture and odors are not trapped inside.

Remove the plug

Before cleaning or performing maintenance, always switch off the appliance, and remove the plug from the socket. Do not run risks.

No solvents or abrasive cleaning products

To clean the exterior and rubber parts of the dishwasher, do not use solvents or abrasive cleaning products. Rather, It is recommended that you use only a cloth and warm soapy water.
To remove spots or stains from the surface of the interior, use a cloth dampened with water and a little white vinegar, or cleaning product made specifically for dishwashers.

Moving the appliance

If the appliance must be moved, try to keep it in a vertical position. If absolutely necessary, it can be positioned on its back.

Seals

One of the factors that cause odors to form in the dishwasher is food that remains trapped in the seals. Periodic cleaning with a damp sponge will prevent this from occurring.
The door should not be left in the open position since this could present a tripping hazard.

When you go on holiday

When you go on holiday, it is recommended that you run a wash cycle with the dishwasher empty and then remove the plug from the socket, turn off the water
supply and leave the door of the appliance slightly ajar. This will help the seals last longer and prevent odors from forming within the appliance.

14. Care and maintenance

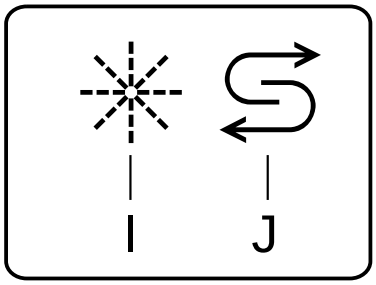
Regular inspection and maintenance of your appliance helps to prevent problems from occurring.This saves time and aggravation.You should therefore carefully inspect the inside of your dishwasher from time to time.

14-1.Overall condition of appliance

● Check that no grease or scale has accumulated on the inside of the dishwasher.
If you discover any deposits:
● Clean the interior of the dishwasher thorughly with a dishwasher detergent solution.

14-2.Dishwasher salt

Check the LOW SALT indicator " J ". Top up with salt, if required.



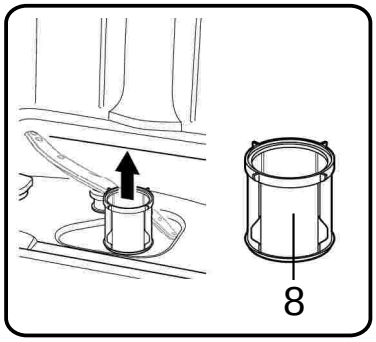
14-3.Rinse-aid

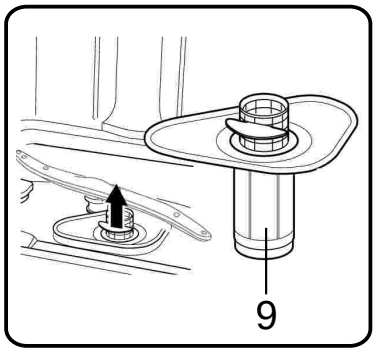
Check the LOW RINSE AID indicator " I ", on the front panel. Top up with rinse-aid,if required.

14-4.Filters

The filters " 8"," 9" prevent larger particles of food in the water from reaching the pump.These particles may occasionally block the filters.

● When the appliance has finished washing, check the filters for particles of food and, if required, clean.
● After undoing the coarse micro-filter " 8 " , the filter unit "9" can be removed. Remove any particles of food and rinse the filters under running water.
● Insert the filter unit " 9 " and tighten the coarse micro-filter.





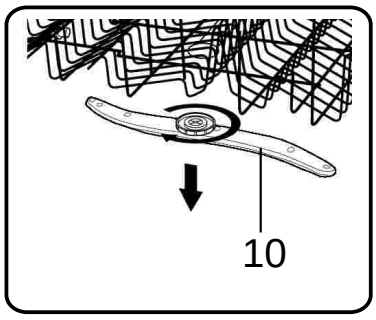
Notice:

Before cleaning, make sure that the plug of the appliance has been removed from the socket.

14-5.Spray arms

Lime and remnants of food in the washing water can block the nozzles in the spray arms " 10 " and " 11 " and the arm mountings.

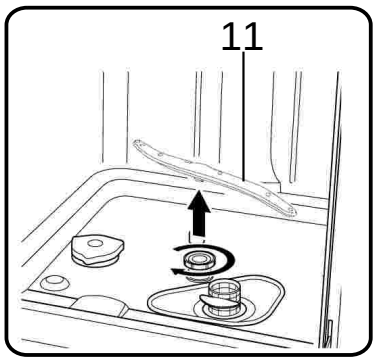
● Inspect the nozzles in the spray arms for blocked holes due to remnants of food.
● If necessary, pull the lower arm " 11 " upwards and lift it off.
● Unscrew the upper spray arm " 10 ".



● Clean both spray arms under running water.

● Refit the spray arms. Ensure that the lower arm has locked into place and the upper one is screwed tight.

Ensure that the power supply is turned off prior to removal and cleaning of any internal pars.



15. Maintenance Services and Trouble Shooting

15-1. Maintenance services

It may occur that the dishwasher does not function or does not function properly，before calling for assistance, let us see what can be done first: have you forgotten to press one of the buttons or to perform an essential operation?

15-2. Trouble shooting

when the appliance is switched on

Appliance does not start up

- Fault with fuse in mains electricity supply.
- Plug not inserted in wall socket.
- Appliance door not closed properly.
- Programme button has not been pressed.
- Water tap not turned on.
- Blocked strainer in water intake hose.

-The strainer is situated in the Aquastop or supply-hose connection.

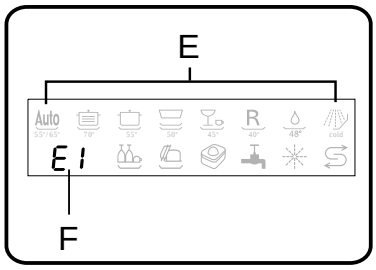
Caution

Do not forget that repairs should only be carried out by a qualified specialist. Improper repairs can lead to considerable equipment damage as well as danger to the user.

...with the appliance itself

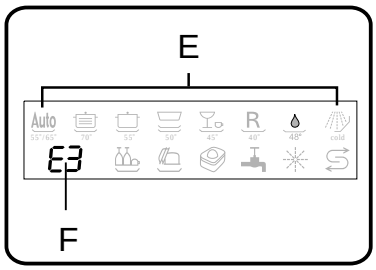
Error display on the time-remaining indicator.
When the buzzer emits 10 short warning signal every 30 seconds, the time-remaining indicator display "E1" and the programme indicator light.
Have you checked whether:

- The door is closed properly.



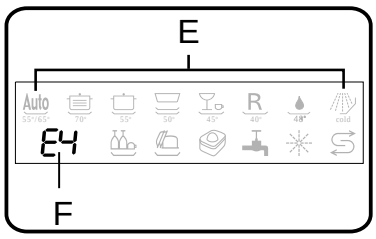
When the buzzer emits 10 short warning signal every 30 seconds, the time-remaining indicator display "E3" and the programme indicator light.
Have you checked whether:

- The drain hose is too low.

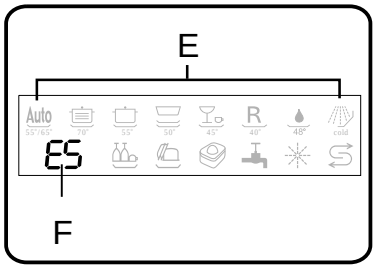


When the buzzer emits 10 short warning signals every 30 seconds, the time-remaining indicator display "E4" and the programme indicator light.
Have you checked whether:

- The drain hose is crimped or bent.
- The drain hose is too high.



When the buzzer emits 10 short warning signals every 30 seconds, the timeremaining indicator display "E5" and the programme indicator light.



Have you checked whether:

- The water is turned on and the hose is connected properly;
- The water supply to the house is on and has sufficient pressure;
- The water supply hose is crimped or bent;
- The filter for the water supply hose is clogged.
- The drain hose is too low.

When the buzzer emits 10 short warning signals every 30 seconds and the time remainingindicator display "E2","E6","E7","E8","E9","EA" or "Eb", Contact the nearest authorized service center.

If you take all these checks and the dishwasher still does not function or your dishwasher have any other error display, you can power the dishwasher OFF, and wait a few minutes. You can power the dishwasher on, try it again , if the dishwasher still does not function and/or the problem persists, contact the nearest authorised service center and provide them with the following information:

- The nature of the problem.
- The model type number (Mod...) And the serial number (S/N...), which are indicated on the ratting plate located on the side of the inner part of the door.

Lower spray arm rotates with difficulty

- Spray arm is blocked by small items or food remains.

Lid in detergent compartment cannot be closed

- Detergent compartment has been overfilled.
- Mechanism is clogged with remnants of detergent.

Remnants of detergent stuck inside dispenser

- Compartment was damp when it was filled up with detergent. Compartment must be dry before detergent is added.

Water remains inside appliance after programme has ended

- Blockage or kind in drainage hose.
- Pump is jammed.
- Filters are blocked.
- The programme is still running. Wait for the programme to end

...during washing

Unusual amount of foam is creased

- Normal washing up liquid has been poured into the rinse-aid container.
- Remove any spilled rinse aid with a cloth as it could otherwise lead to excessive foaming during the next washing cycle.

Appliance stops suddenly while washing is taking place

- Cut off electricity supply to appliance.
- Water supply has been interrupted.

Knocking sound can be heared while washing is taking place

● A spray arm is knocking against the dishes inside the appliance.

Rattling sound can be heared while washing is taking place

● Crockery has not been stacked properly inside the appliance.

Knocking sound coming from inlet valves

● This is caused by the way the water pipes have been laid and it has no effect upon the way the appliance functions. There is no remedy for this.

...with the dishes,cutlery, etc.

Remnants of food are stuck to the dishes, cutlery,etc.

● Dishwasher was not loaded properly. Jets of water could not reach all parts of the dishes, ect.
● Too many items in the rack.
● Items in the rack were touching each other.
● Not enough detergent was added to dispenser.
● Selected wash programme was not intensive enough.
● Rotation of spray arm was obstructed by dishes, etc.
● Nozzles in spray arm are blokcked by remnants of food.
● Filters are blocked.
● Filters have been incorrectly fitted.
● Waste-water pump is jammed.

Plastic items are discoloured

● Not enough detergent was added to dispenser.
● Detergent has insuffcient bleaching properties. Use a detergent containing a chemical bleaching agent.

White stains are left on crockery, glasses have a milky appearance

● Not enough detergent was added to dispenser compartment.
● Amount of rinse-aid was set too low.
● Although water is quite hard, no salt has been put in appliance.
● Water softener was set too low.
● Lid on salt container is not screwed tight.

If you used a phosphate-free detergent , try a detergent containing phosphates and compare results.

Dishes,cultlery,etc.have not been dried

● Selected programme did not include drying function.
● Amount of rinse-aid was set too low.
● Items were removed from dishwasher too soon.

Glasses have a dull appearance

● Amount of rinse-aid was set too low.

Tea stains or traces of lipstick have not been completely removed

● Detergent does not have a sufficient bleaching effect.
● Washing temperature was set too low.

Traces of rust on cutlery

● Cutlery is not sufficiently rustproof.
● Salt content in washing water is too high.
- Lid on salt container is not screwed tight.

- Too much salt was spilt while filling container.

Glasses become clouded and discoloured; coating cannot be wiped off

● Unsuitable detergent was used.

● Glasses are not dishwasher-proof.

Smears left behind on glasses and cutlery; glasses have acquired a metallic appearance

● Amount of rinse-aid set too high.

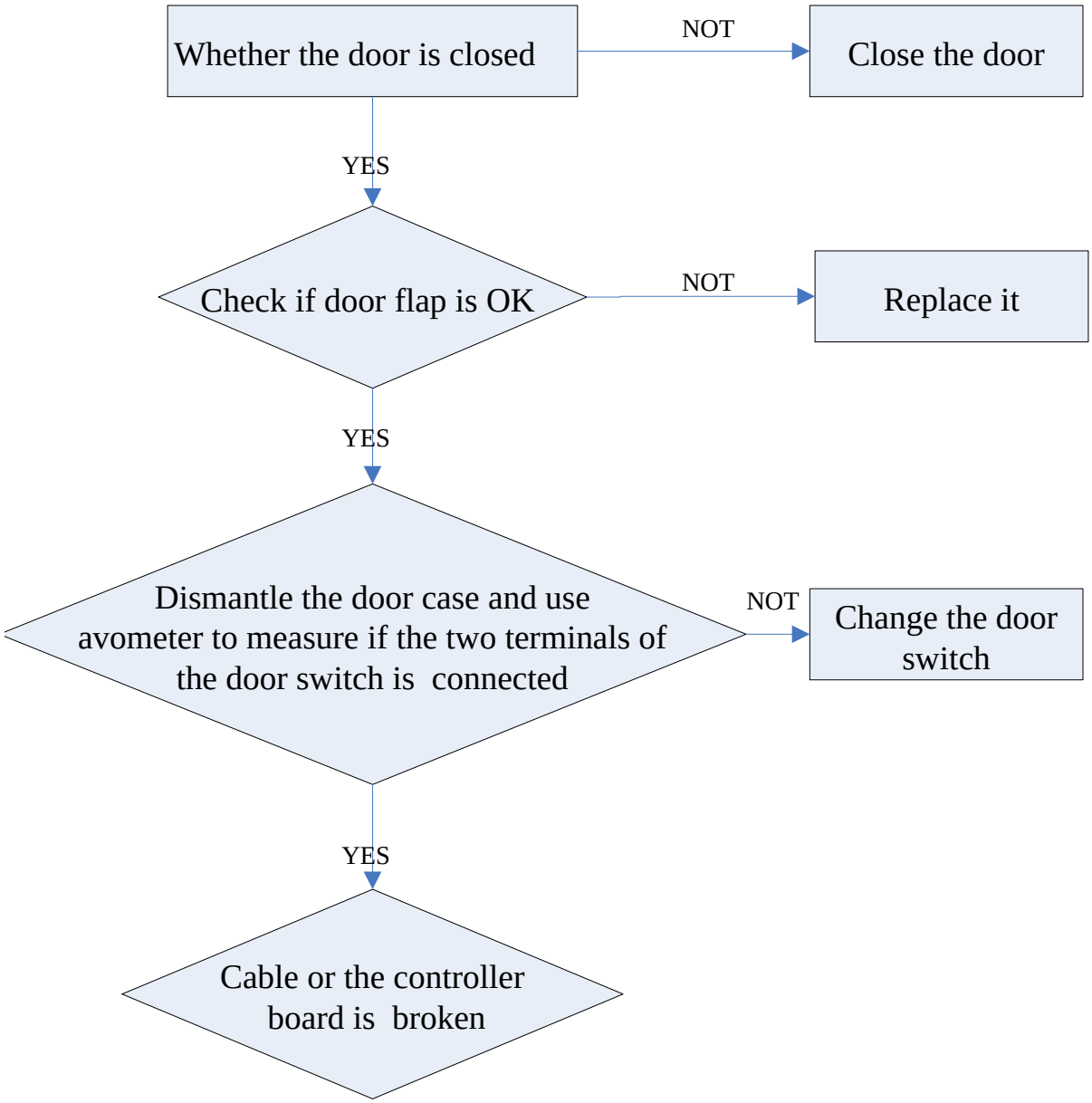
15-3.Trouble display code

NO.	Alarm	Display code	Remark
1	door alarm	**E1**	auto resume
2	NTC alarm	**E2**	auto resume
3	water leakage alarm	**E3**	auto resume
4	drain water alarm	**E4**	auto resume
5	water inlet alarm	**E5**	not auto resume
6	overflow alarm	**E6**	not auto resume
7	water sensor alarm	**E8**	auto resume
8	diverter alarm	**E9**	auto resume
9	high level alarm	**EA**	auto resume
10	heater alarm	**Eb**	auto resume

15-4.Analysis of the common breakdowns

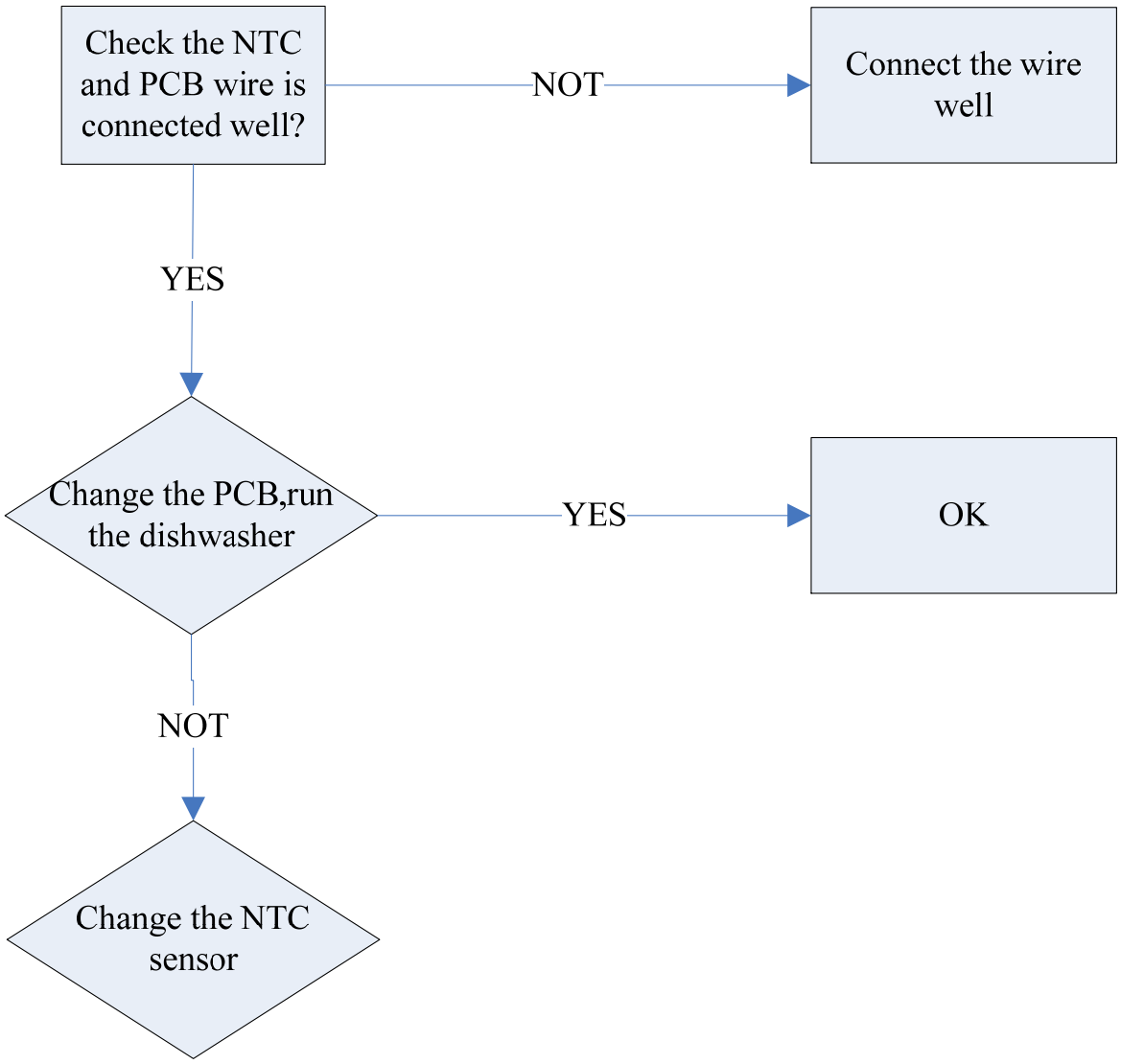
15-4-1. E1 Alarm :Door switch trouble

Phenomenon: the dishwasher does not work


Whether the door is closed
NOT
Close the door
YES
Check if door flap is OK
NOT
Replace it
YES
Dismantle the door case and use avometer to measure if the two terminals of the door switch is connected
NOT
Change the door switch
YES
Cable or the controller board is broken

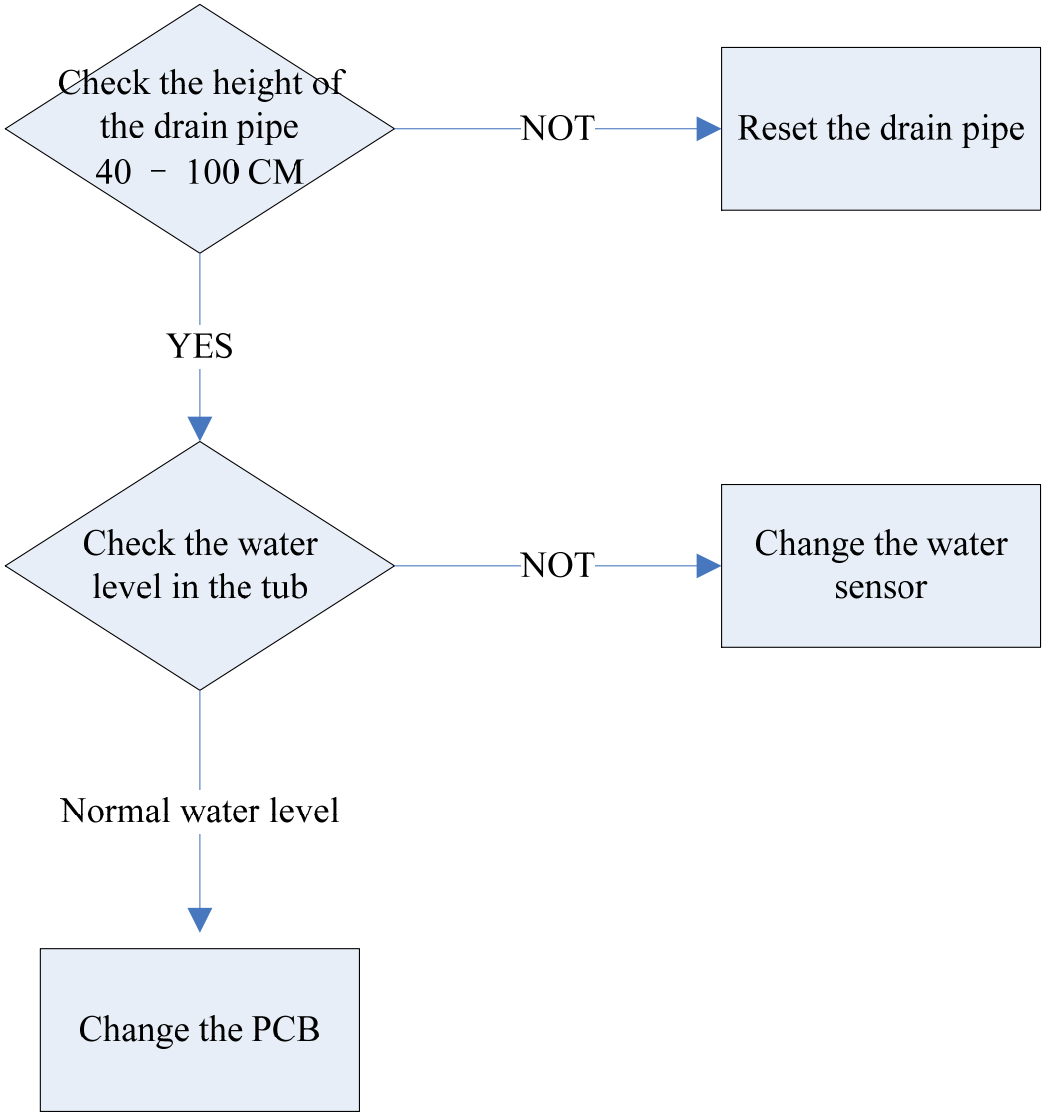
15-4-2. E2 alarm : NTC alarm

Phenomenon: the user interface displsys E2 error,NTC sensor have something wrong,



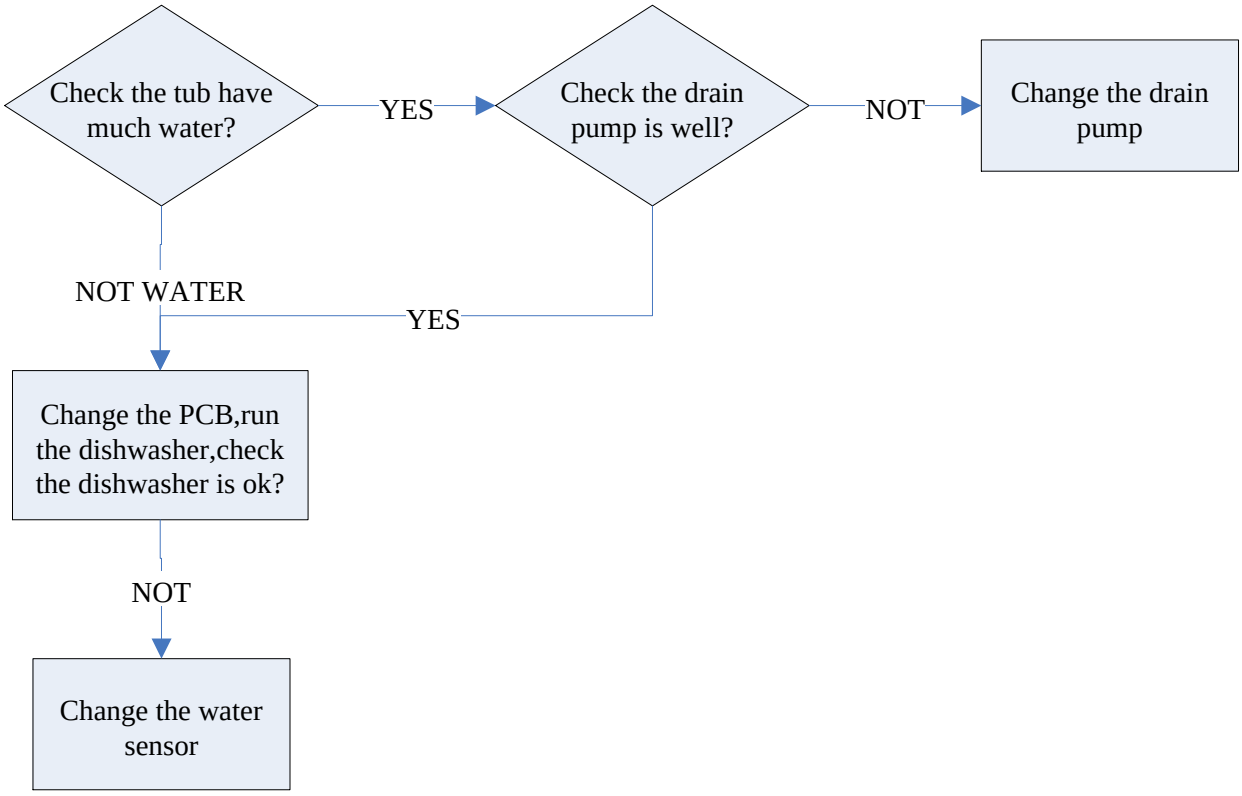
15-4-3. E3 alarm : water Leakage trouble

Phenomenon: The user interface displays the E3 error.



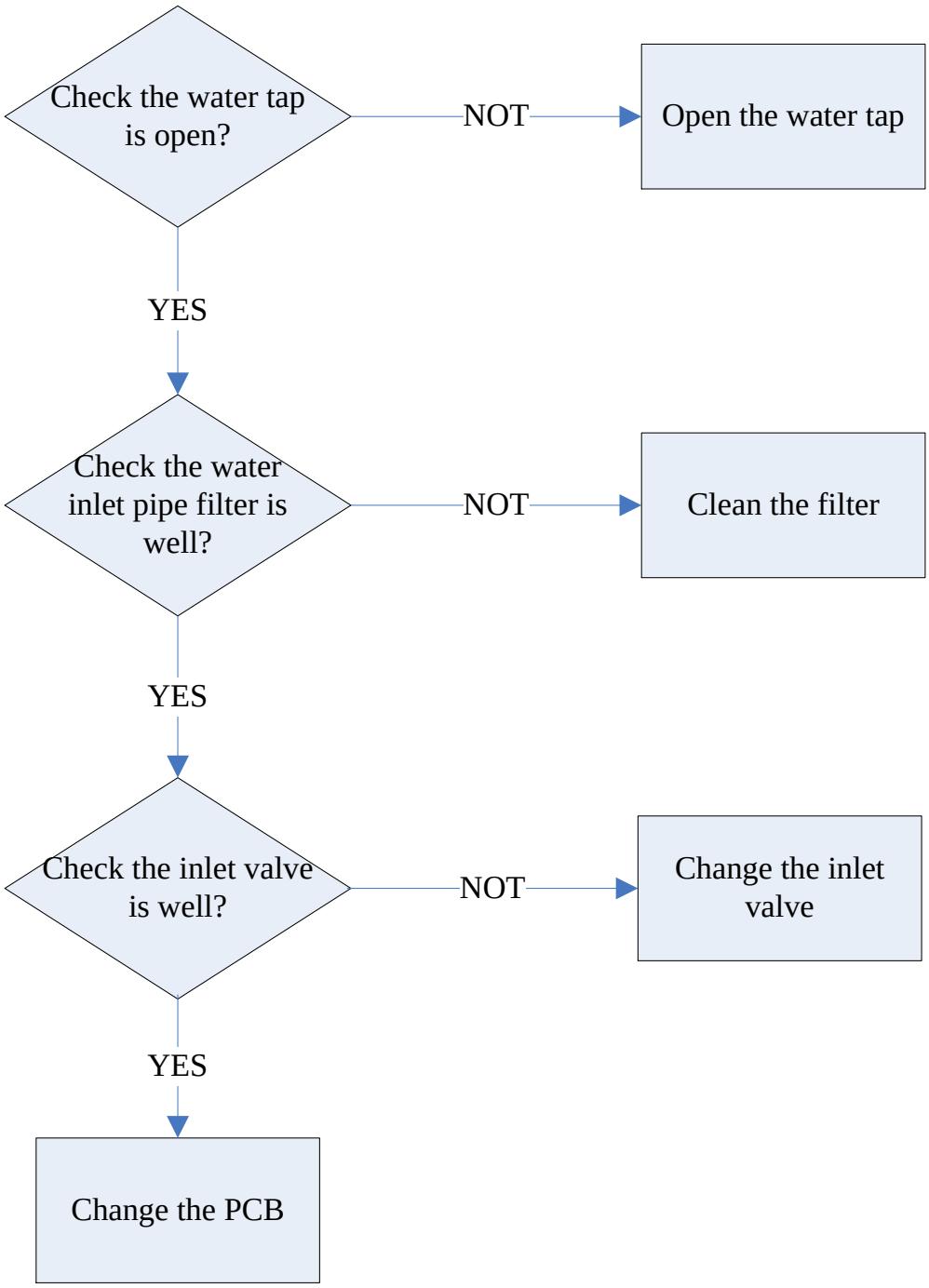
15-4-4. E4 alarm : Drain pump trouble

Phenomenon: water cannot be drained



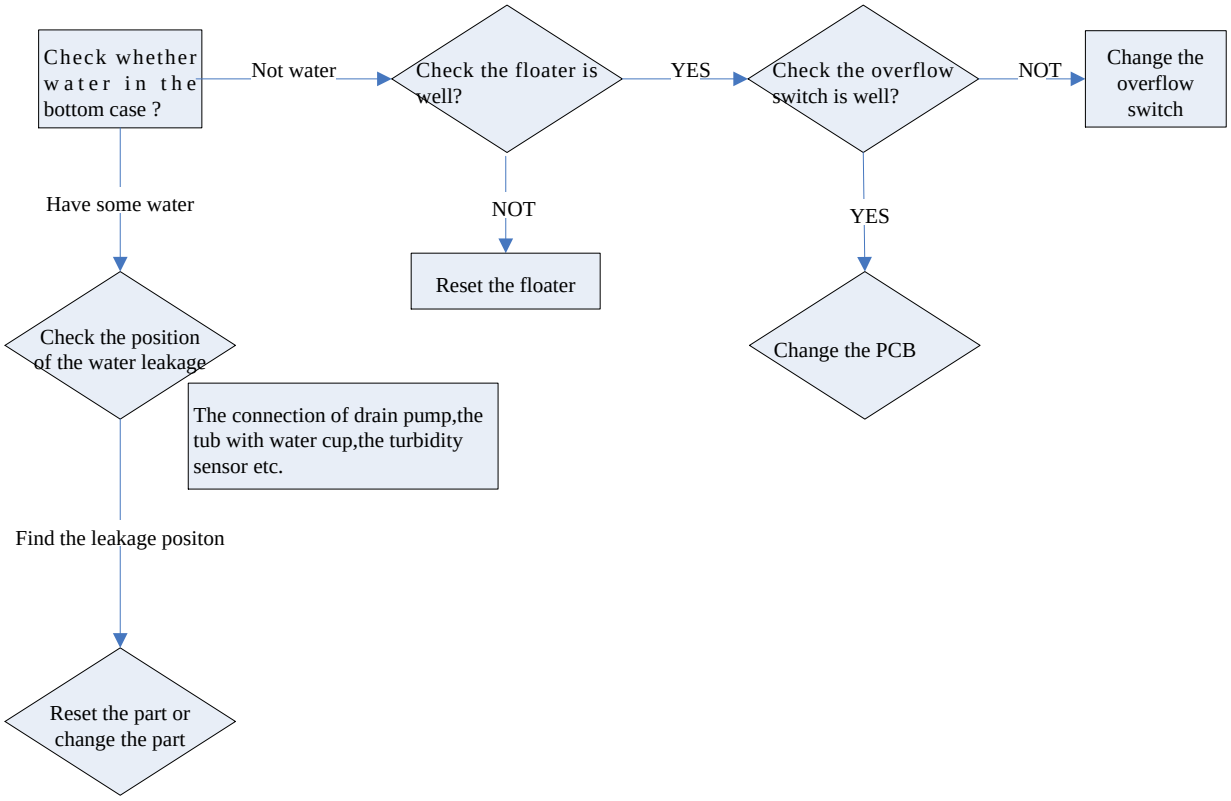
15-4-5. E5 alarm : Water supply trouble

Phenomenon: water level cannot reach the required location



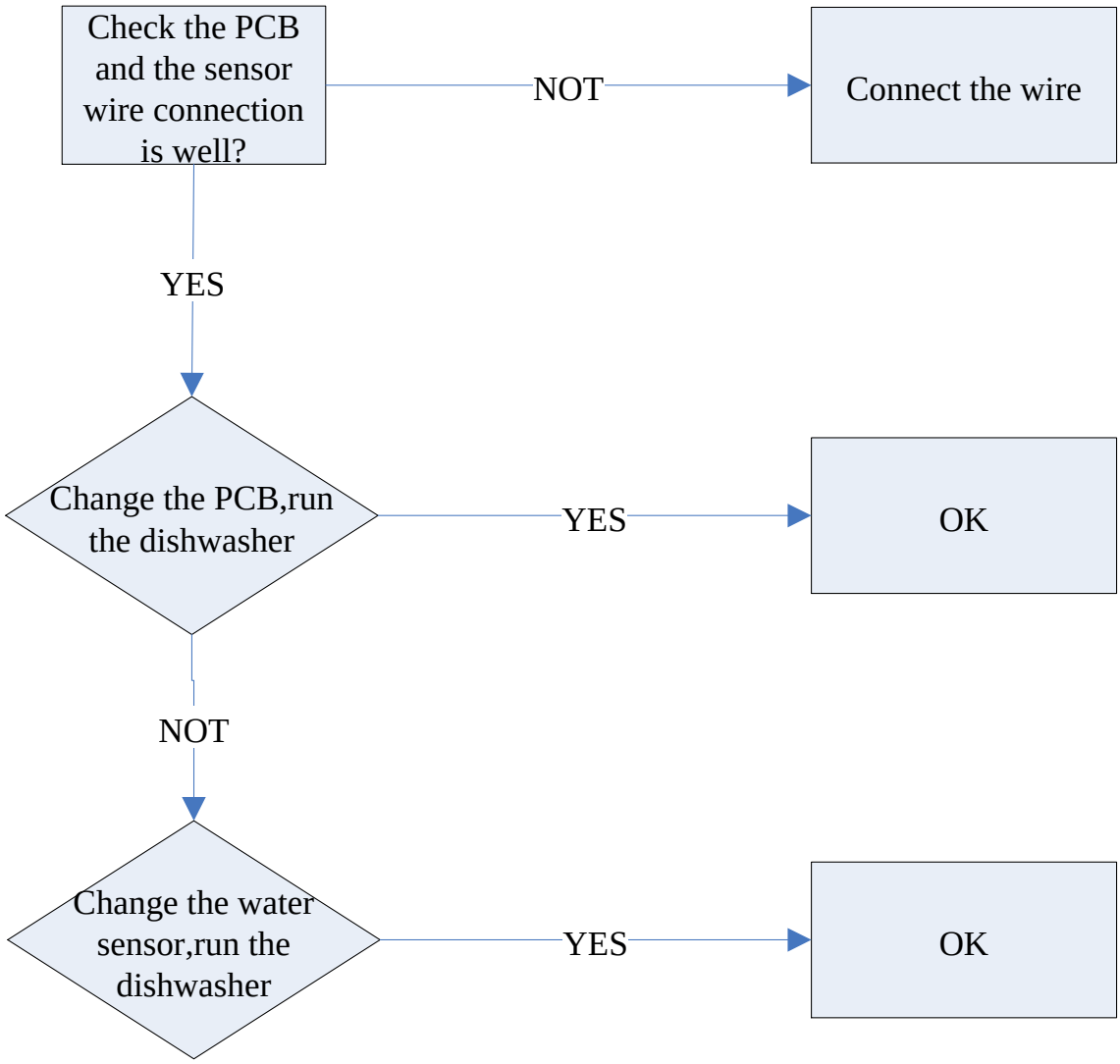
15-4-6. E6 Alarm : Water overflow trouble

Phenomenon: drain pump keep on working


Check whether water in the bottom case ?
Not water
Check the floater is well?
YES
Check the overflow switch is well?
NOT
Change the overflow switch
Have some water
NOT
Reset the floater
YES
Change the PCB
Check the position of the water leakage
The connection of drain pump,the tub with water cup,the turbidity sensor etc.
Find the leakage positon
Reset the part or change the part

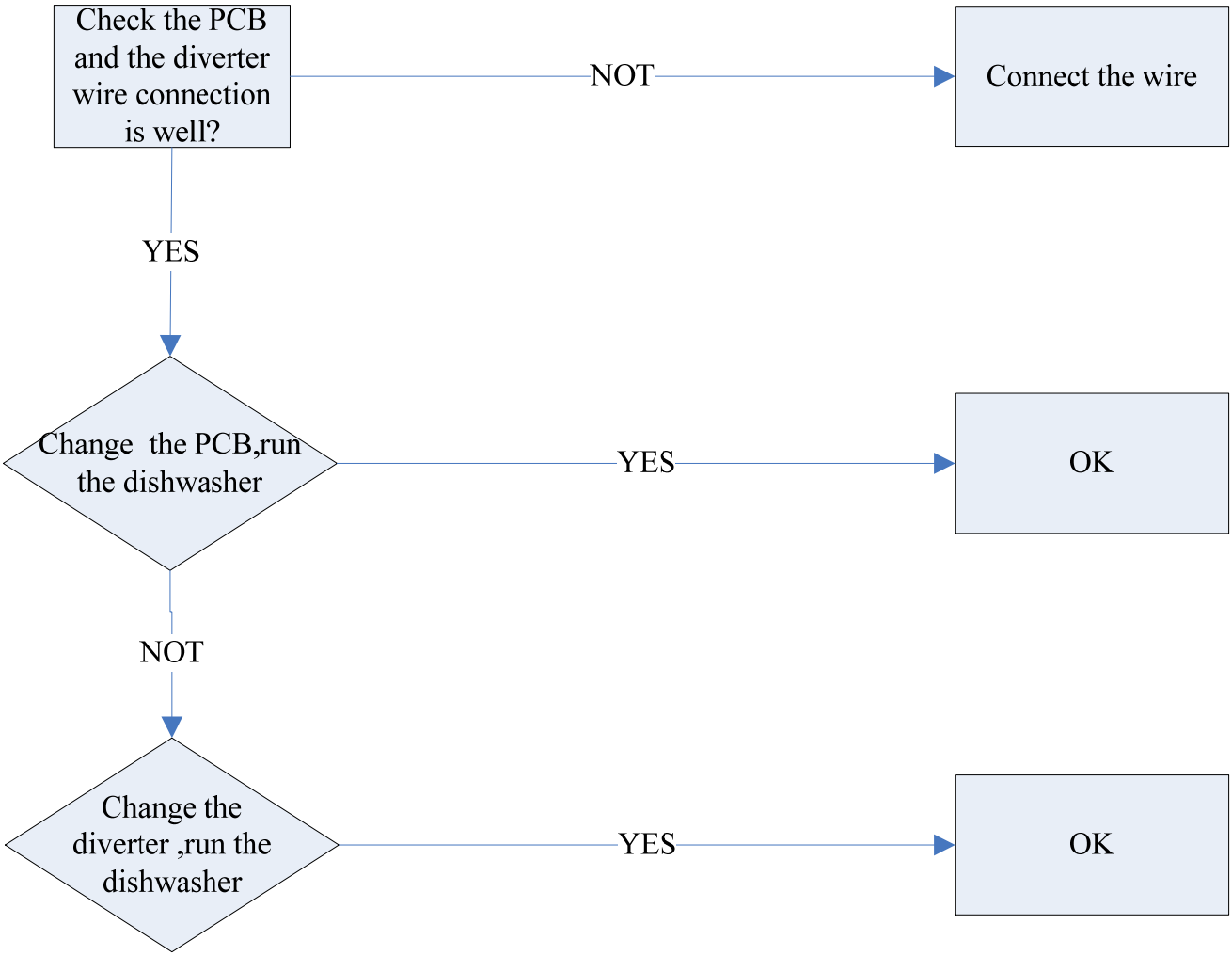
15-4-7. E8 Alarm : Water sensor trouble

Phenomenon: the user interface displays the E8 error.



15-4-8. E9 Alarm : Diverter trouble

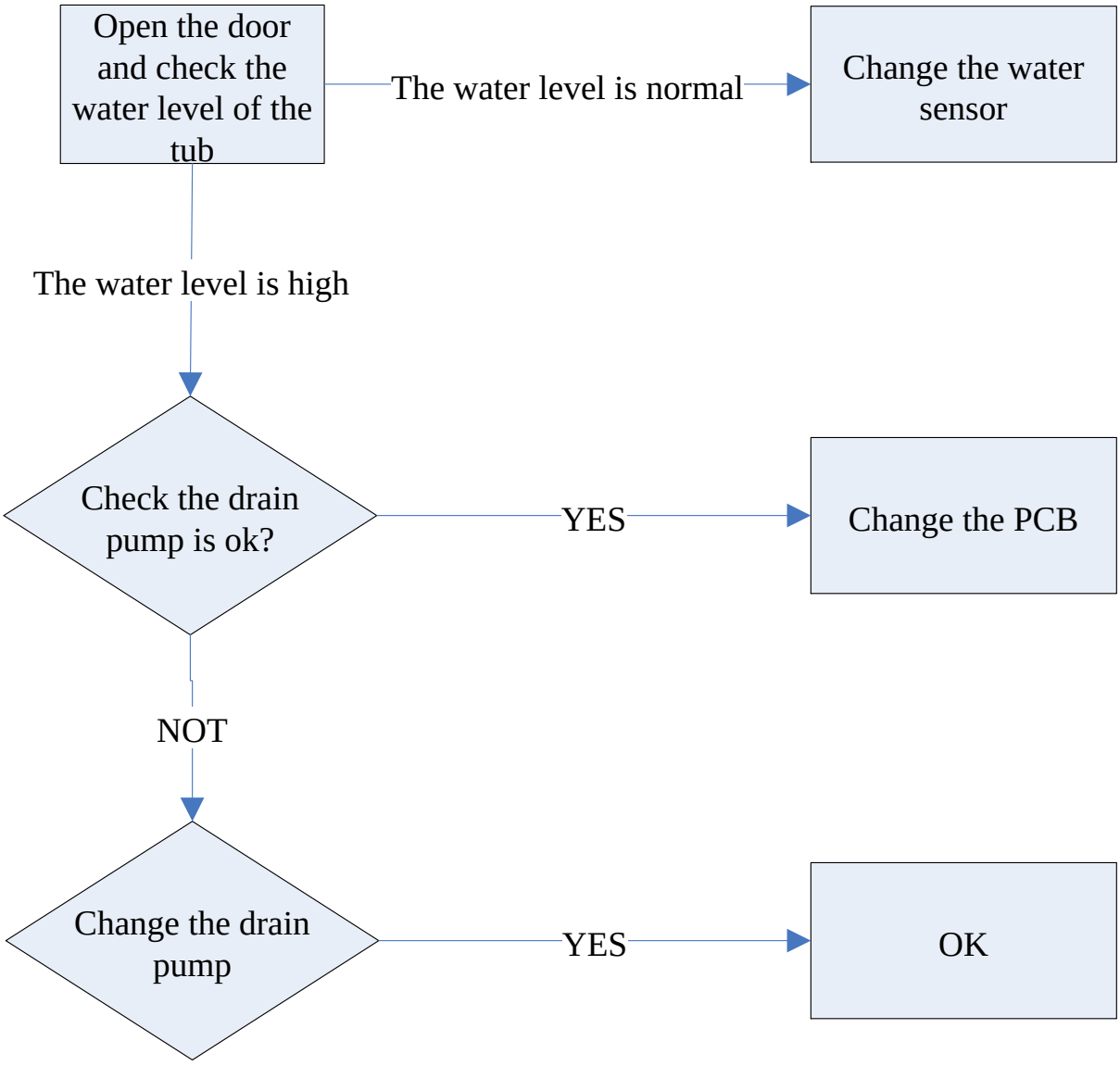
Phenomenon: the user interface displays the E9 error.



15-4-9. EA Alarm : water level trouble

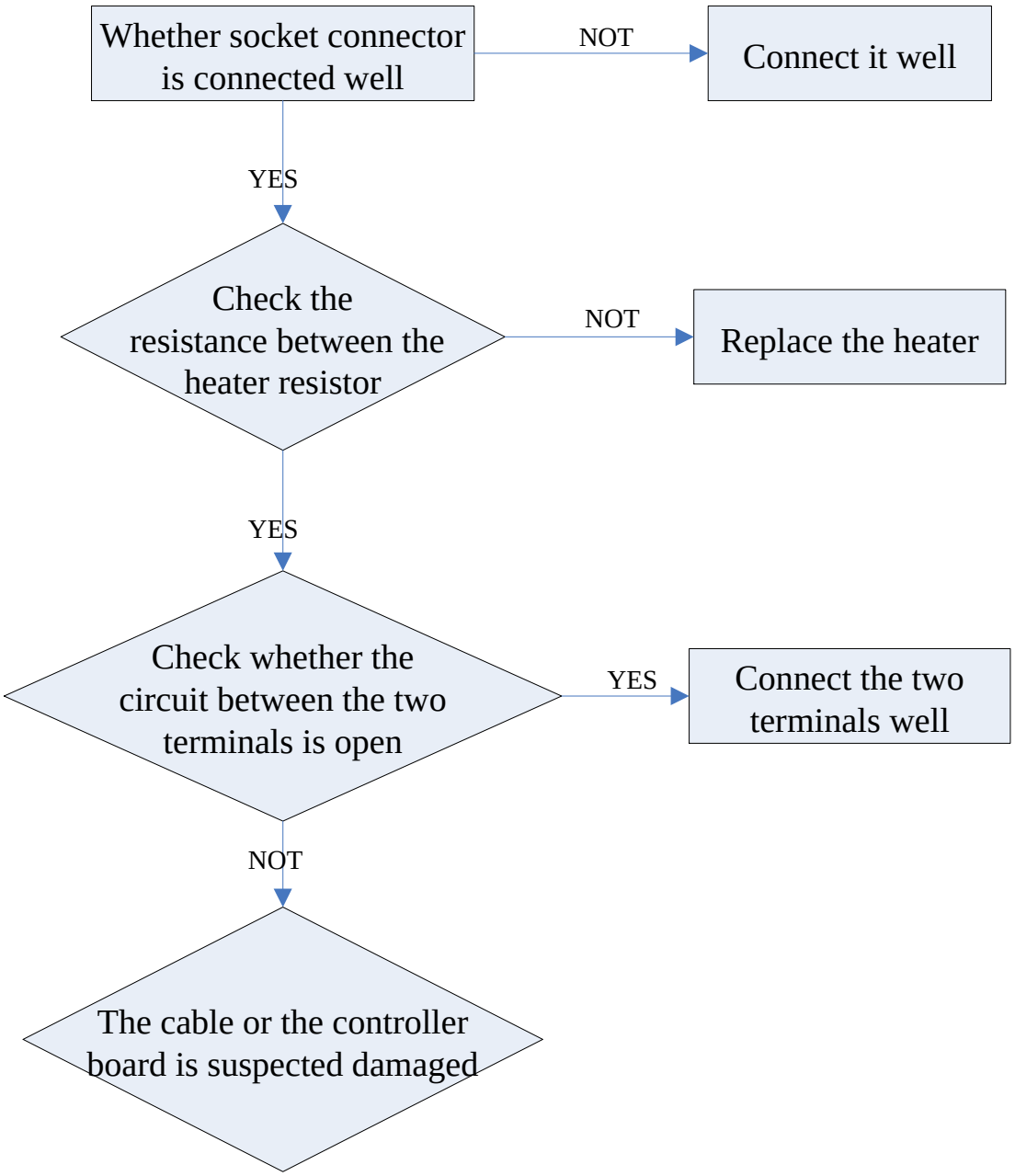
Phenomenon: the user interface displays the EA error.

open the door the tub is full water.If the water is drained to normal water level , this error can auto resume , and the dishwasher goes on working.



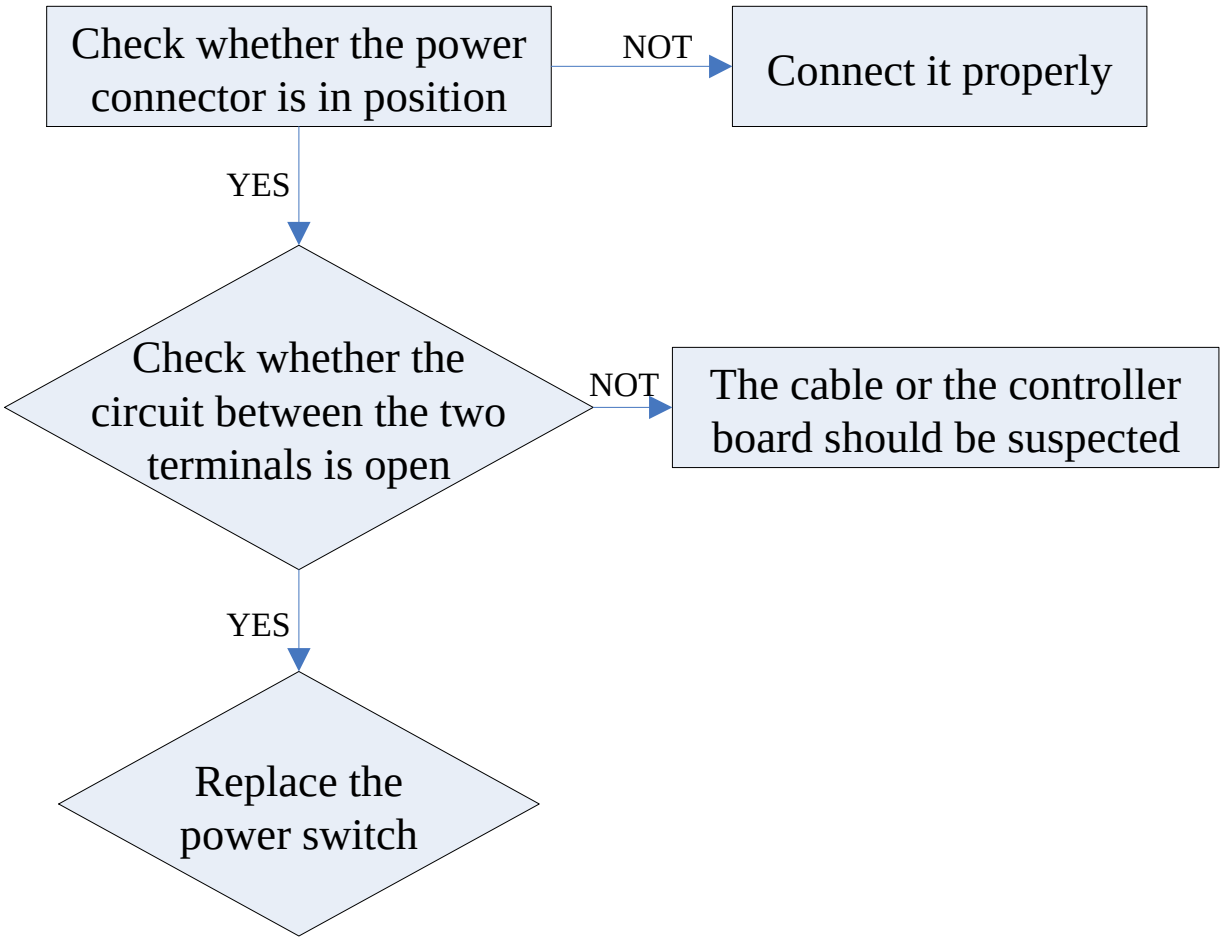
15-4-10. Eb Alarm : Heating element trouble

Phenomenon: the cycle is end , the user interface displays Eb error ,Heating element cannot work

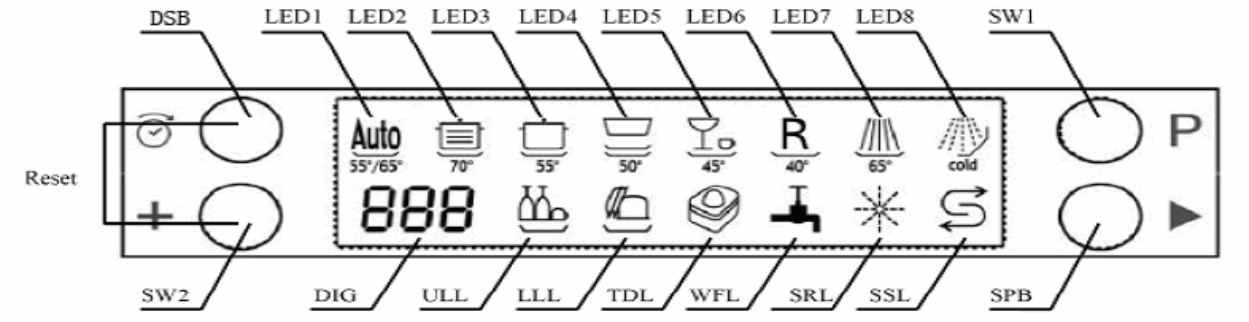


15-4-11. Power supply trouble

Phenomenon: dishwasher cannot work


Check whether the power connector is in position
NOT
Connect it properly
YES
Check whether the circuit between the two terminals is open
NOT
The cable or the controller board should be suspected
YES
Replace the power switch

16. Self-check program



16-1. Start

● When the dishwasher is plugged, press the button SW1 for 3 seconds, without pressing the power button; after two beeps the self-check program will start.

16-2.Process

● After the self-check program starts, all the indicators light up and the DIG reads 888;

16-2-1. Press the button SW1, LED 1 blinks, water valve starts; it stops when the flow meter measures 800n.

16-2-2. Press the button SW1 for the second time, LED1 goes out, LED2 blinks, dispenser starts. It works for 1min, then stops for 1min.

16-2-3. Press the button SW1 for the third time, LED2 goes out, LED3 blinks, the pump starts; electric diverter let water out through B; the pump works for 1min, then stops for 1 min.

--Before the pump starts, if the water is less than 800n, then during the working phrase of the pump more water will be let in to reach the level of 800n.

--If the water volume reachs 800n, the dishwasher displays E3 alarm according to the condition of the water leakage alarm .

16-2-4. Press the button SW1 for the forth time, LED3 goes out, LED4 blinks, the heater starts; after 30s, the heater and the pump works toge her for 30s and then pause for 1min.

--During the work-phrase, diverter lets water out through B.

--During the work-phrase, the heater stops when water temperature reaches 50℃, and stars again when it falls to 30℃.

16-2-5. Press the button SW1 for the fifth time, LED4 goes out, LED5 blinks, diverter lets water out through A,pump works for 1min, then stops for 1min.

16-2-6. Press the button SW1 for the sixth time, LED5 goes out, LED6 blinks, the drain pump starts; it works for 1min, then stops for 1min.

16-2-7. Press the button SW1 for the seventh time, LED6 goes out, LED7 works, the valve in water-softener starts; it works for 1min and then stops for 1min.

16-3. Others

● If any of the process above is started before the last one is finished, it still follows the same order.

● The electric elements above works separately, except for under special conditions, so that check can be made easily.

● During the self-check, if any warning occurs, it should be handled accordingly (except for

warning while opening the door)

16-4.Cancel

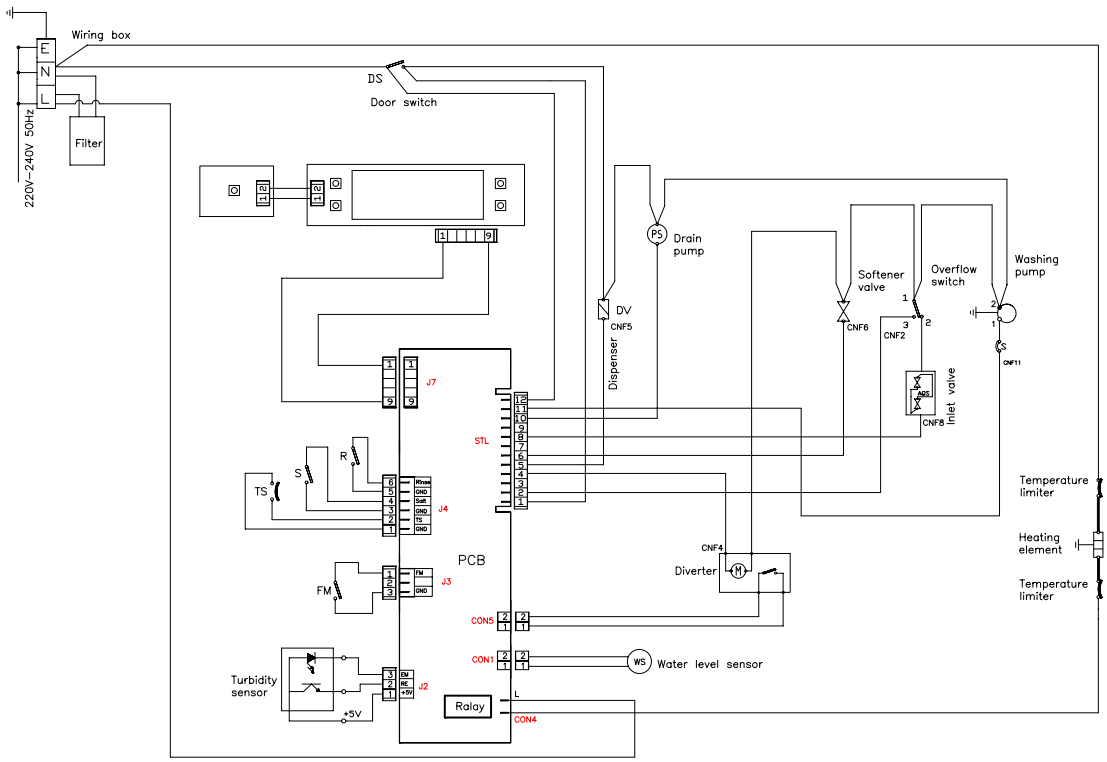
● Press the on-off button to cancel the self-check.

● After the self-check is canceled, the dishwasher is turned off.

17. Technical data

Width	60 cm
Depth	60 cm
Height	85cm
Capacity	12 standard place settings
Mains water pressure	0.03-1.0MPa
Power voltage	220-240V~ 50Hz
Total absorbed power	1900W
Fuse	13A

18. Circuit Diagram



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